in the scuttern Garson Desert, near Tallon, Novada

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1. E. Larrison

Nesday of the geoligin

This report presents most of the stratigraphic sections, well logs, and soil-profile assistant obtained during a stratigraphic strict of the cross of about 860 square miles in the southern part of the Carson Devent, near Tallon, Churchill County, M-vain. The angular moch: and surficial sediments runts in aga that apply Wervamp (1) to happer's. The late quaserning esdiments and soils were especially studied: they furnish a detailed history of the Thurtentions of Lake Labouram (a huge but inversityest late Pheistocome late) and of younger large, as well as a history of late quaternary selimentation, erosion, soil details and of the Charge that probably is representative of the apprecentation of the statement part of the Great Dasin.

The Newtiger to the tree divided into ouve make may made. The hower three are chiefly house the blickers of claim substitut in addition houses and assiste of Follow Moneyah, and the three of Moneyah Edgler Erose of claims the interest in the continue of money and the interest of money and the continue of money three of money and the local and the continue of money and the continue of money three of formation, is noticely and edition of the claim of Philosopher (?) as possibly and the majorithm of the contiller the fraction of the continue of the fraction of the fraction of the continue of the fraction of the fraction of the continue of the fraction of the fracti

sections, well logs, and soil-profile sections listed in Plate 1 .- - Topographic map of southern Carson Desert area showing this report, and of chief wells yielding natural gas. traces of lake maxima and locations of stratigraphic

Explanation

D or 05.

Site of stratigraphic section, soil-profile section (designated by 8 after numeral), or driller's log of well (indicated by L after numeral).

P

Well producing inflammable natural gas

1 1

Estza; S2, middle Sehoo; S3, late Sehoo; F1, maximum of first Fallon lake. Hachured where accurately located, dashed where The western E indicates shore of the late Sehoo lake is too indefinite to be mapped, because of widespread deflation and collan sand deposition. Prace of lake maximum, at time of this maximum. extrapolated, dotted where eroded or concealed.

commonly are more or less tilted. The degree of deformation increases with age of the rocks, showing that faulting was fairly continuous. The surfier Tertiury deformations were mostly compressional, with notable strike-slip faulting, but Quaternary faulting was dominantly tensional. Few of the older faults are emposed; most emposed date from two climanes, the first in late Phiocens or early Quaternary time, and the second probably also in relatively early Quaternary time, long prior to Lake Lakontan time. During the interval of relative quiescence between these two climanes, extensive pedimentation occurred at the edges of the mountains. The main faults were active repeatedly, and as most of them bound mountain blocks, relief was increased progressively to a maximum at the close of the second climan. Subsequent erosion and sedimentation has been more rapid than faulting, and has progressively lowered the mountains and filled the basins.

The Carson Desert, long a major drainage sump of the northwestern treat lasin, contains Custernary sediment probably more than a thousand feet thich in places. It is one of the largest and deepest basins of testern Nevada that were inundated by Lake Labortan; its floor lies as much as 515 feet below the highest shorenine. The crea rapped covers the whole range of lake fluctuations from highest to complete desicoation. Inc Custernary deposite, exclusive of releanies, comprise seven nain units (table 2), which are, from eleast to poungest:

- 1. Legustrine sediments of pre-Lake Laborton age.
- 2. Subscrial sediments and soil of late pre-Lake Labortan age.
- 3. Deep-lake sadiments, and maker intertonguing subserval deposits, of early lake falcutes use.

- 4. Subcerial rediments, soil, and intertonguing shallow-lake sediments of mid-Lake Labortan age.
- 5. Deep-lake sediments, and minor intertonguing subserial deposits, of late Lake Laborian age.
- 6. Subserial sediments and soil of early post-lake Lahontan age.
- 7. Subserial sediments and intertonguing shallow-lake sediments of late post-Lake Lahontan age.

Only the deposits of Lake Labortan and younger age are widely exposed.

Pre-Lake Labortan history is fragmentary, but Lake Labortan and post-Lake Labortan history is fairly complete. A lake older than Lake Labortan is suggested by a single exposure of lacustrine sediment. A long interval of lake recession or desicastion ensued, during which any lakes remained at locat 420 feet below the nacimum level of Lake Labortan. During early Lake Labortan time the lake reached its maximum level of 1,500 feet, receded briefly to at locat as low as 4,100 feet, then rose sould be 4,340 feet. In mid-Lake Labortan time the basin intermittently was low and bald shallow lakes. Luring late Lake Labortan time the lake and 5 minutes and 2 recessations; first it rose to 4,370 feet, then dropped to be least 5,990 feet, then rose to 5,100 feet, then dropped to be least 5,990 feet, then rose a last time to 3,990 feet. During early post-lake Labortan time the basin generally was completely dry, and turing late post-lake Labortan time five successive small lakes, with maximum depths of 15 to 85 feet, accupied parcs of the basin floor.

The writer a deductions on the loke history give no support to

O. C. Somer' (1915) interpretation of a single last cycle starting a more
(2,00) or so years ago. They agree, however, with most of Bussell's (1885)

and Antevs' (1945, 1948, 1952) conclusions, although they supplement or contradict them in several actails. Lake laborate had multiple maxima during both early and late lake Laborate times, supplementing both Russell's and Antevs' interpretations. The lake dried completely in mid-lake Laborate time, contrary to Antevs' interpretation but in line with Russell's. The lake reached its highest level in early lake laborate time, as Antevs inferred, contrary to Russell's conclusion.

Later Quaternary volcanian consisted of small eruptions at three with in the central lowlands. One went probably erupted in late pre-Lake Laborata time, forming the basalt come known as Rattlesnake Hill; exother crupted in mid-lake Laborata time, forming the hills of basaltic tuff and tuff-breeds called Upsal Hogback; the third erupted in late Lake Laborata time (and possibly earlier), forming the craters occupied by Sola lake and lattle Soda Lake, and the surrounding tuff core.

-

Like Queternary faulting was mixor and affected chiefly the basin-inversion. The highest shoreline of lake Labortan is practically unself-med; on the other hand, the younger deposits of Lake Labortan is the basin inversion are keeping faulted or warped at puch as 10 feet.

Largely by means of roll samplingrouply the following correlations

total bien developed: the Cocoon soil is correlated with the pre-Wissonsin

soil of Hunt and Scholoff (1950) in the Lake Bonneville and Rocky

hoursalm areas and with the soil of pre-Takes age (of Blackwelder, 1931)

in the Signra Nevada; the Charchill soil le correlated with the mid-lake

Consertile roil and with the soil of inter-Take-Tiogs age (of Blackwelder,

1951) in the Sierra Nevada. The Toyeh soil is correlated with poils of

yout-Lake Bonneville and post-Thoya time. The deposite intermediate in

Somewhen these mair soils are correlated as follows: The Betza formation is correlated with the Alpine and Bonneville formations of the Lake Bonneville area, and with the deposits of the Takee glacial stage in the Siarra Nevada. The Wyensha formation is correlated with submerial deposits of inter-Bonneville-Provo age in the Lake Bonneville area and with disconformations of inter-Takee-Tiega age in the Siarra Nevada. The Selvo and Indian Lakes formations are correlated with the main part of the Provo formation of the Lake Bonneville area, and with deposits of the Diego placeal stage in the Siarra Nevada. The Turnuph formation is correlated with deposits of Anteve; "alwithernal age" (2000 to 5500 B. C.) in the Great Basin. The Fallon formation is correlated with deposits of Anteve; "madithernal age" in the Great Basin and with deposits of Natthes' "Little Toe Age" in the Siarra Nevada.

Oa

IW cor. sec. 24, T. 22 H., R. 29 E. Auger hole in central Carson Sink, at wrecked plane. $3,369 \pm 1$ ft. altitude.

Geologic	Description	Unit no.	Thickness (feet)	Depth (feet)
Fallor In.	Medium sand, fairly clean to clayey, w	ith		
	a little coarse sand and grit. Bolian	1. 1	0.5	0.5
20.	Clayey medium soud, clay increases			
	Kovaward. Lacustrine end colian.	2	0.2	0.7
	Directionally.			
Selvo žin.,	Clay, fatty, with some partings of ail	ty		
Token Hell	elsy and ostracci coquinc, soft, light			
	olive green; lecustring.	3	15,3	5.0
0	Clay, soft, light olive with some inte	rbeds		
	of gray clay; lucustine.	15	0.0	5.8
Transport of a	Clay, derie gray to derk olive gray; so	30		
	inverseds of blus-green clay (1/2 im.	-		
	thick), and in lover 1 ft. a fer inter-	.e3s		
	of black combonaceous, inially clean med	lim		
	sond; lacustrine.	5	2.5	7.3
*** ·	Pine soud, elean, black; looustrine.	6	0.1:	7.7
Y -	Oley, olime, solve looustring.	7	9.8	7.9
	Euse not resplec.			

Caa

NE cor., sec. 24, T. 22 N., R. 29 H. Auger hold in central Carson Sink. 3.069 ± 1 ft altitude.

Gaplogic unif	Deserration	Thit	Thickness (feet)	Depth (fest)
Tallon in.	Fine send, sere coares send, a libtle	(६०६)		
	grit, slightly clayey. Bolien.	1	0.5	0.5
to.	Modium sand, clayey, clive gray;			
	locusorine and epiden.	8	1	2.0
Pelso fiz.,	Clay, little or no send, soft, olive			
Market and the	green; lecustrine.	3	8.5	4.8
ymaelu fin.	Clay, somewhat silty, dark green-gray			
	to dark grey; lecustrine.	i.	1.04	5.84
٥.	Clay. jet-black, pronounced HgS ofor;			
	lecuroxime.	ñ	1.2	7.0:
5,	Giog. Textege to i thing detail goog will			
	plack; locustrine	5	J. 73	1.00
	Fins said, restly clean, aquifer, klack			
	to derk grey, H28 odor; lacustrine.			
	Wase not received.	7	34	10.2

NEI/4 acc. 25, T. 22 H., R. 29 H. Auger hole in Carson Sink. 3,869 & 1 ft altitude.

Geologie	Description	Taichness (2095)	Depth (feet)
Relies Fr.	Clayey sand and sandy clay, light clave gray.	(tep)	
	Lacustrine.	0.5	0.5
	Dircomionnity.		
Seroc fin,	Clos, mesely "fathy", chire green, some		
lover for.	ostracod coquina partinge; lecustrine.	3.5≿	4.04
Agensia fm.	Clay, some sondy and/or silty clay interbeds		
	in lover 1.5 St., dark groy; lacustrine.	3.0	7.0
∵ *	Olay, mility and early, black; lecustrine.	1.0	8.0=
Dat	Olog, pale clare gray, locustrine.	5.5	0.1
ž Ž v	File rand, fairly mices in vyger years,		
	socianes electry in lever 1/3 %., blacks		
	lantswing. Loss act required.	1.0	9.1

1/4 mi H. of SW port, see. 19, T. 22 F., R. 30 H. Auger hole in central Carron Sink. 3,869 & 1 ft altivula.

Perlogic	To a second bound of the second secon	Thickness	
unit	Deforty/105	(1435)	1 666
Solion - s.	Silty-senty cley, gray. Iconstrint.	0.5	0.2
The s	Meddun sand, classy in upper part and rear		
	bass. Roller and languative.	1.4	16
Palac Barr	Cluy, some func ensa jour dages chive grey		
later par.	coff; lacustring.	1. 1.	6.0
Tyracha da.	Cley, derk greeniek gray, changing domward		
	to deak grow; surong HgS caor; lecustribe:	1.7	7.7
ža.	Fire corf, deak group with abundant beseltie		
	grains; EgS olom; Decerring.	0.3	8.0
	vier for this group lemowing.	0.3	8.3
	Pine Saul gray Lawl. similar to writ 5;		
	equifer. Rese not mention.	No. 1	9-5

NVIL/4 sec. 26 %. 22 N., R. 30 E. Auger hole in certral Carson Sink. 3,069 & 1 St altitude.

Geologia unit	Description	Thickness (Seet)	Depth (feet)
Faller fm.	Sandy alsy, very estima.	(top) 0.2	0.2
Seino fm.	Oley, clive green, futty (no white ach		
	leger noted); leasewrine.	9.0	9.2
Herri	Oler, somerket rilly, dork gray green		
	to dork gray; lequatrine.	0.5	9.7
	Clay to silty clay, dark gray to black;		
	pronounced H2S cdor; lacustrine. Ess not		
	mescreā.	7-3	17.0

SEL/4 acc. 24. T. 22 M. R. 30 E. Magaz bole in central Carson Sink. 3,869 \pm 1 Ft abtitude.

terlugie	Description	Thickness (feet)	Depth (feet)
Fallon An.	Sundy cluy, saline, kight clive gray.	(top)	
	Lucustring.	0.2	v.2
felto (11.	Clay, olive, roft. 1.5 ft below top is		
	1/4 in. unite purneous ach parturg;		
		3.0	3.2
I:0 -	Punicecus ash, white, clean, hard-comented;		
	locustrine.	O. Le	3-35
le.	Olcy, olive, soft; lactation.	2.9	6.2
yamı xı.	They, greenish median greet to deal greet.		
	to IgS coor: incombrace.	0.3	6.5
\$ 14 ₀	Olog - ologe - soft: leve trans.	Company of the compan	7.0
_7	Class class; resigner of send and		
	reade doirenties or original charges		
	erms collines; leourimies	2.5	9.5
20.	Class dank grounds have with some light		
	odny zo blem co very čurk (rey clay)		
	leve who. Sair was respect.	34	12.5

SWL/b sec. 29, T. 22 N., R. 30 D. Auger hole in Carron Sink. $3,869 \pm 1$ ft altitude.

Geologia mais		Thickness (feet)	Depth (feet)
Fallon im.	Sondy clay, labertrine.	(top) 0.2	0.2
Schoo in.	Clay, clive green, soft; a few sandy partings	3	
grant to have made	Lecurtrine.	3.1	3.3
jezu Se	Fire-medium send, clean, gray; Lesworthe.	0.2	3.5
₹.	Clay, some sand partings, dark greenish		
	gray to dark gray; lacustrine.	and a Sea	2.7
	Five sand, class, dark grey, nearly black;		
	Little .	0.3	5.0
işa.	Silly clay, somewhot cabby, dark gray, nearly		
	blish some EgS cdor: lecusione.	0.5	5.5
Ç.,	Oliga light blidelt greet lecurtrine.	0.5	6.0
Q.	Fire scut, black, squiter, strong HgS cdor;		
	pocatble becaltic freguence. Lecustrine.		
	Rese not remaked.	2.3:	8.3

NEL/4 SWL/4 cas. 25, T. 22 H., R. 27 H. Auger hole in central Carson Sink. $3,869 \pm 1$ ft altitude.

Geclogic mit	Description	Vait no.	Thickness (feet)	Depth (feet)
Fallon fo.	Clayey medium sand, pale olive gray;		(top)	
	lacustrine.	1	0.3	0.3
Nyezaus in.	Pine-medium sand, clean, olive gree;			
	lectronice.	2	1.7	2.0
£ 2 .	Fine sand, clean, clive gray; lecustrine.	. 3	0.3	2.3
	Silt, interbeddel with very fine sandy			
	silt; less clay at base; minaceous, clive	and the state of t		
	gray lectricis.	25	0.3	2.6
.5.	Madium sess. cleam, chive gray,			
	lacustrine.	ž.	0.3	2.9
1.	Madam sammi, Madally elem, jet blank,			
	changing to dark gray in lover 1 fe.			
	Lecustrine. Esse not reached.	6	2.44	5.3

Oh

NW1/4 sec. 31, T. 22 N., R. 29 E. Auger hole in Carson Sink, near its southwestern edge, beside Fallon-Lovelock cutoff; $3,005 \pm 3$ ft altitude.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Wyenaba fm.	Fine zand, well sorted, tan, very salty.		
	Lacustrine.	0.5	0.5
Do:	Medium sand, well sorted, brown. Lacustring.	1.8	2.3
Io.	Fine and medium sand, well sorted, tan.		
	Lecustrine.	0.2	2.5
Do.	Medium and coarse sand, some pebbles to		
	1/4 in. Alluvial or lacustrine.	0.5	3.0
Do.	Clay, dark gray.	0.2	3.2
Do.	Medium and coarse sand, some small pebbles		
	and grit (basalt, quartz, and probably olivine),	
	black, highly organic (bad smell);		
	water-bearing. Base not reached.	1.0	4.2

1,200 ft W. of SE cor. sec. 34, T. 22 M., R. 29 E. Auger hole in ... Carson Sink. 3,009 ± 1 ft altitude.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Fallon in.	Clayey medium sand, salty, light gray yellow.	(top)	1
	Lacustrine.	0.3	0.3
Seboo fin.,	Clay, non-silty or sandy, very sort, light		
lover mbr.	olive; locustrine.	1.0	13
	Sharp contact.	•	
Vyenahu in.	Medium sand, clean, olive gray; lacustrine.	1.2	2.5
Do.	Coarse-medium sand, clean, olive gray;		
	lacustrine.	2.5	5.0
Do.	Medium sand, clean, dark gray; lacustrine.		
	Base not reached.	1.3	6.3

SE1/4SU1/4 sec. 33, T. 22 N., R. 30 H. Auger hole in Carson Sink. 3,869 \pm 1 ft altitude.

Geologic unit	Description	Thickness (feet)	Depth (Peet)
Fallon im.	Clayey medium sand, olive gray. Lacustrine.	(top) 0.4	0.4
Do.	Clay, soft, olive green; lacustrine.	0.5	0.9
Do.	Medium sand, clean at top, becoming clayey		
	near base; olive gray. Eolian or lacustrine.	0.4	1.3
Sehoo fm.,	Clay, olive, soft, some sand partings;		
Lover mbr.	increasingly sandy in lower several inches.		
	Locustrine.	1.3	2.6
De.	Medium sand, clean, gray. Lacustrine.	0.1	2.7
Dc.	Silty clay, pale olive gray; lacustrine.	0.2	2.9
Wyemaba fm.	Medium sand, deep rusty brown (darkest, most		
	ferruginous at top). Lacustrine.	2.3	5.2
Do.	Medium sand. Top 0.6 ft is dark gray with		
	slight H2S odor; remainder is nearly black,		
	more silty, has strong H S odor. Lacustrine.		*
	Base not reached.	1.8+	7

OLS

NE1/4NV1/4 sec. 33, T. 22 N., R. 31 E. Auger hole in Carson Sink. 3,871 + 1 ft altitude.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Fallen fm.	Clayey fine-medium sand, grading downward to	(top)	
	sandy clay, light olive gray. Eolian and		
	lacustrine.	0.4	0.4
Sehoo im.,	Clay, quite sandy in upper 1 ft, little sand		
lover mbr.	below, although shightly silty throughout		
	(generally gritty between teeth). Soft, moist		
	below top 2-3 ft. Lacustrine.	8.3	8.7
Wyensha In.	Interbedded clay, dark gray blue-green to very		
	dark gray, and clean fine-medium sand, gray to		*
	jet-black. Locustrine.	1.3	9.0
Do.	Clay (muck), jet-black to very dark gray,		
	strong organic and H2S odor; lacustrine.	1.0	10.0
Do.	Interbedded (equal parts) dark gray to		
	black-gray and olive-gray clay; lacustrine.		
	Base not reached.	1+	11.0
	Water level about 7-8 ft below surface in Octo	per 1949.	

Okla

NEI/4 sec. 35, T. 22 N., R. 31 E. 3,875 ± 10 ft altitude. Stillwater Lekes plain. Driller's log of validation well for oil claim, drilled in 1914 by L. W. Crehore of Fallon for Nevada Standard Cil Co.

Geologic unit	Description	Thickness (fect)	Depth (feet)
Fallon and			
Sehoo fus.	Yellow cley.	12	12
Wyemoho In.	Blue clay or mud.	66	78
De.	Black sand, with a small amount of gas		
	and small fish bones.	2	80
Do.	blue clay.	18	98
		•	
Do.	Send with fish bones.	1+	994
			bottom

SN1/4SW1/4 sec. 33, T. 22 N., R. 31 D. Auger hole in Carson Sink. 3,8/1+1ft altitude.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Fallon fm.	Fine-medium sand, clayey, highly saline	(top)	and the second s
	crust. Lacustrine.	0.2	0.2
Seboo îm.,	Clay, olive green to olive gray; elmost		
Lover mir.	without silt and sand; lecustrine.	7.8	8.0
Wyemsha fm.	Do., several 1/2-1 in. partings of		
	fine-medium sand, clean, rusty yellow brown;	٠.	
	lacustrine.	0.5	8.5
do.	Clay, dark blue-green gray; locustrine.	0.5	9.0
Do.	Clayey mud, stinking organic odor, and, below		
	top 2 ft, pronounced H2S odor. Jet black		
	(highly carbonaceous), some interbeds of dark		
	blue-green gray clay, more numerous downward.		
	Locustrine.	3.0	12.0
Do.	Clay, mostly dark greenish-gray with some		
	black interbeds. Strong H2S odor; lacustrine.		
	Base not reached.	5.0	17.0
	Water level at about 6 ft depth in October 1949	9.	

Om

SW1/4 sec. 4, T. 21 N., R. 31 E. Auger hole in Carson Sink. 3,871 = 1 ft. altitude.

Geologic vnit	Description	Thickness (feet)	Depth (feet)
Fallon fin.	Fine-medium sand, clayey, pale olive gray;		
	lacustrine.	0.3	0.3
Schoo im.,	Clay (not gritty between teeth), slightly		
lower mbr.	saline, light olive green, moist and buttery.		
	Some white fine sand partings in lower		
	balf. Lacustrine.	0.8	1.1
Do.	Clay, mostly with little silt or sand; a few		
	partings or thin beds of silty and/or fine		
	sandy clay. Lacustrine.	1.5	2.6
vyemska im.	Fine-medium sand, clean except for rust-brown		
	colored clayey or limonitic contings;		
	lacustrine.	0.7	3.3
Do.	Clay, with sparse grains of fine sand;		
	olive green; lacustrine.	4.3	7.6
Do.	Clay, medium grayish blue green; lacustrine.	0.6	8.2
Do.	Clay, dark blue-green gray to nearly black;		
	lacustrine.	1.0	9.2
Do.	Clay, slightly silty, jet-black; organic		
	and sulfurous (H2S) smell; lacustrine.	1.4	10.6
Do.	Clay, pale light olive gray; lacustrine.	0.4	11.0
k.	Clay and silty clay, jet-black, stinking		
	organic and H2S odor; lacustrins. Base not resched.	54	16.0
	20		

Swy4

Agec. 2 (unsurveyed), T. 21 N., R. 30 E. Auger hole in Carson Sink.

3,869 ± 1 ft altitude.

Geolotic unit	Description	Unit no.	Thickness (feet)	Depth (feet)
Fallon fm.	Sandy clay, pale olive gray; highly	(top)		
	salty crust.	1	0.2	0.2
Senco in.,	Clay, olive, with some silt and a little	:		
lower mbr	fine sand (some zones sandier than other	6).		
	Lacustrine.	2	6.0	6.2
Wyenaha fm.	Clay, dark greenish gray with bright			
	blue-green clay partings; grades downwar	.G		
	to very dark gray clay. Slight H2S odor			
	at top, increasing comewhat downward.			
	Lecustrine.	3	1.2	7.4
Do.	Clay, very dark greenish gray to black.			
	Pronounced 125 odor. Lacustrine.	4	0.6	8.0
Do.	Clay, dark blue gray; lacustrine.	5	0.7	6.7
Do.	Medium sand, fairly clean, black (highly	P		
	carbonaceous); aquifer; lacustrine.			
	Base not reached.	6	2.04	10.7

SVII/4 sec. 7, T. 21 N., R. 29 E. Auger hole in alkali flat beside benchmark on Fallon-Lovelock cutoff; 3,900 ft altitude.

Geolog ic unit	Description	Thickness (feet)	Depth (feet)
Sehoo fm.,	Pale gray to white lithoid tufa, platy to		
lower mbr.	irregular masses, nearly continuous, in sandy		
	silt. Locustrine.	0.5	0.5
Do.	Medium sand with abundant ostracods; tan-green		
	lacustrine.	0.5	1.0
	Sharp, even, conformable contact.		
Wyenshe im.	Fine medium sand, well sorted, reddish-yellow		
	brown; many fish bones in upper part; some		
	lime-cemented partings, including 1/4-in. very		
	hard one at base.	3	4.0
Do.	Silty sand, very limy, reddish-brown; lacustring	3.3	
	possibly part of eroded soil profile.	0.3	4.3
Do.	Fine send, grading downward to medium send, tar	1,	
	except basal 2 in. is rust-stained. Lacustrine	1.5	5.8
Do.	Silt, tan; lecustrine.	0.2	6.0
Do.	Fine send, well sorted, ton; lacustrine.	0.5	6.5
Do.	Medium and coarse sand, well sorted, 20 percent	i	
	čerk (baseltic) grains. Lacustrine.	1.5	8.0
Do.	Fine sand, some silt, tan with rusty partings;		
	lecustrine.	0.5	8.5
Do.	Fine sand, dark blue-gray with green grains;		
	organic, stinks slightly. Lacustrine.	0.25	8.75
Do.	Medium sand, dark blue-gray, organic (mucky);		
	water-bearing. Lacustrine. Base not reached.	2.75	11.5

Cp

1,600 ft N. of SW cor. sec. 9, T. 21 N., R. 29 E. Auger hole in Carson Sink, near its southern edge. 3,885 + 3 ft altitude.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Wyesaha fm.	Medium sand, with some coarse sand, clean,	(top)	
	golden yellow; lacustrine.	1.0	1.0
Do.	Silt, clean, some mica, tan; lacustrine.	0.5	1.5
Do.	Silt, clear, dark gray; lacustrine.	0.5	2.0
Do.	Medium sand, with some coerse sand and grit,		
	clean, dark gray; lacustrine or alluvial.	3÷	5.0

CQ

NW1/4NE1/4 sec. 10, T. 21 N., R. 29 E.; 3,875 ± 5 ft altitude. Southern edge of Carson Sink. 1904 water test borehole, no. 125 in Stabler (1904) report; water level 4 ft below surface in 1904.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Failon fm.	Sandy loam.	1	1
Sehoo fm.,			
lower mbr.	Yellow clay.	ı	2
Wyeneha fm.	Yellow sand.	2	Į.
Do.	Black sard.	3	7

Or

Sec. 11 (unsurveyed), T. 21 N., R. 30 E. Auger hole in Carson Sink. 3,869 ± 1 ft altitude.

Geologic unit	Description	Unit no.	Thickness (feet)	Depth (feet)
Fellor fm.	Fire sand, clayey to moderately clean,			
	some sandy clay partings; olive gray.			
	Lecustrine and eolian.	1	1.0	1.0
Sehoo fm.(?)	Interbedded clayey finc-medium sand end	1.2		
	sandy clay; olive gray; lacustrine.	2	1.9	2.9
Wyenshe fm.	Clay, greenish gray, greding downward			
	toward unit 4. Lecustrine.	3	0.4	3.3
5 0.	Silt and clay, some fine sand, black;			
	organic smell, but no EgS; lacustrine.	4.	0.3	3.6
Do.	Fine sand, black, organic ameli			
	(no HgS); lecustrine.	5	0.9	4.5
20.	Fine sand, dark gray to black; lacustris	ie.		
	Base not reached.	6	1.2	5.7

NWI/bSWI/4 sec. 16, T. 21 N., R. 31 E. Auger hole in playe near SE margin of Carson Sink. 3,874 + 2 ft altitude.

Geologic unit	Description	Unit	Thickness (fest)	Depth (feat)	
			(top)		
Failon fm.	Clayer sand and sandy clay, light gray;				
	lacustrine.	3	0.6	0.6	
Seloo im.,	Clay, light olive gray, slightly silty				
lover mbr.	and sandy in top 34 ft; below is less a	sendy			
	but with a few partings of fine sand en	ad			
	fize-sandy clay, which commonly are				
	yellow-brown or rusty yellow brown-				
	Lacustrine.	2	8.4	9.0	
Do.	Fine-medium sand, clean, brown; lacustri	ine.3	0.1	9.1	
Do.	Clay, somewhat silty and mandy; soft;				
	light olive; lacustrine.	Į,	3.1	12.2	
	Funiceous volcanic ash, white,				
	seni indurated; lacustrine.	5	0.05	12.25	
Myensie fz.	Clay, olive, grading downverd to olive-ten,				
	then grayish blus-green, then blue-gree	en gray,			
	becoming darker downward; lecustrine.	6	0.5	12.75	
It.	Silvy clay, jet-black, Has odor;				
	lactrine.	7	2.8	15.55	
Do.	Silty clay, dark greenish gray, some bl	lack			
	to tan streaks and a few partings of se	and			
	and saudy clay; lacustrine.	8	0.5	16.05	
Do.	Pumiceous ach, white (parting); lacustri	ine.9	0.03	16.1	
Do.	Clay with silty or fine-sendy clay				
	partings; dark greenish gray to dark gr	ef;			
	some tan streaks; lacustrine. Base not	;			
	reached.	10	4.0	20.1	
	200000000000000000000000000000000000000				

Sec. 15, T. 21 N., R. 30 S. Stratigraphic section exposed by trenching scarp of large deflation basin. $3,380 \pm 5$ ft altitude.

Description	Unit no.	Thickness (feet)	Depth (feet)
Lake and colien sand.		2+	24
Disconformity; erosion surface.			
Clay, olive green-gray; lacustrine.	1	6 <u>4</u>	84
Fine sand, rust-brown, locally			
indurated; lacustrine.	2	0.24	8.24
Clay, olive green-gray, ostracods			
disseminated and in 1/16 in. thick len	ses		
of fine sand; slightly laminated local	737:		
locustrine.	3	24	10.24
Volcanie ash, white, silt-sized;	4		
lacustrine.	Žį.	0.14	10.34
Clay, similar to 3.	5	13	11.34
Fine send, rust brown, abundant			
ostracods; lacustrine.	6	0.15	11.54
Clay, similar to 3. 1/8 in. white			
volcanic ash parting 1.50 ft below top	;		
lacustrine. Base not exposed.	7	3.54	15.0+
	Lake and colian sand. Disconformity; erosion surface. Clay, olive green-gray; lacustrine. Fine sand, rust-brown, locally indurated; lacustrine. Clay, olive green-gray, ostracods disseminated and in 1/16 in. thick len of fine sand; slightly laminated local lacustrine. Volcanic ash, white, silt-sized; lacustrine. Clay, similar to 3. Fine sand, rust brown, abundant ostracods; lacustrine. Clay, similar to 3. 1/8 in. white volcanic ash parting 1.5c ft below top	Lake and colien sand. Disconformity; erosion surface. Clay, olive green-gray; lacustrine. 1 Fine sand, rust-brown, locally indurated; lacustrine. 2 Clay, olive green-gray, ostracods disseminated and in 1/16 in. thick lenses of fine sand; slightly laminated locally; lacustrine. 3 Volcanic ash, white, silt-sized; lacustrine. 4 Clay, similar to 3. Fine sand, rust brown, abundant ostracods; lacustrine. 6 Clay, similar to 3. 1/8 in. white volcanic ash parting 1.5c ft below top;	Description no. (feet) Lake and colian sand. 2½ Disconformity; erosion surface. Clay, olive green-gray; lacustrine. 1 6½ Fine sand, rust-brown, locally indurated; lacustrine. 2 0.2½ Clay, olive green-gray, ostracods disseminated and in 1/16 in. thick lenses of fine sand; slightly laminated locally; lacustrine. 3 2½ Volcanic ash, white, silt-sized; lacustrine. 4 0.1½ Clay, similar to 3. 5 1½ Fine sand, rust brown, abundant ostracods; lacustrine. 6 0.15 Clay, similar to 3. 1/8 in. white volcanic ash parting 1.5½ ft below top;

SW corner sec. 16, T. 21 H. R. 29 E. Auger hole in plays embayment SW of Carson Sink. 3,895 2 ft altitude.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Fellon fre.	At surface 2 in. sandy fine gravel, 1/2 to		
	3/4 in. diam., some to 1 1/2 in. diam.; many		
	fragments lithoid tufa of Sehoo fm., also some		
	volcanic peobles. Bolian and lacustrine.	0.2	0.24
Wyensie St.	Gritty medium sand, hard-cemented, mostly by		
	CaCO3, also by limonite; some pebbles to 1/2+	in. 0.8	1.04
Do.	Coarse and medium sand, clean, ton-gray; some		
	grit and pebbles to 1/2 in. dism., but mostly		
	less than 1/4 in. dicm.; lacustrine.	1.7	2.54
Do.	Do., but some thin layers (mostly 1 to 2 in.		
	thick) of gray silt and fine sand; lacustrine.	2.0	4.52

Rear SE cor. sec. 23, T. 21 N., R. 28 B.; 3,925 ± 5 ft altitude.

1904 water test borehole, no. 135 in Stabler (1904) report; water level

12.5 ft below surface in 1904.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Wyeneka in.	Sand and silt.	6	6
Do .	Yellow clay.	1	7
Do.	Black clay.	3	70
Do	Yellow send.	1	11
Do.	Elack sand.	3.5	14.5

Six hundred it S. of IW corner of sac. 21, G. 21 F., R. 29 E. Auger hole at S. edge of plays embayment SW of Carson Sink. 3,8884 3 2t altitude.

And Marked Control of	Description	Thickness (feet)	Depth (feet)
Fallon fn.,	Silty clay, saline, light gray. Discontinuous		
upper mbr.	lag gravel on surface, of fragments of tan		
	lithoid tufa (besin-interior lithoid tufa of		
	lover Sehoo). Lacustrine.	0.5+	0.5
- ,	Disconformity.		
Special da.	Medium sand, well sorted, deep rusty yellow		
	in upper part, doubterd note and note gray.		
	Somewhat limonite and line comented in upper		
	few inches. Lacustrine.	2.5*	3.0
Do.	Medium send, some coarse sand and grit, somewhe	3.5	
	silty and clayey; many dark basaltic or andesi	tia	
	granules; dark brown gray. Lacustrine.	1.5	4.54
Do.	Like above but less sility and clayey (better		
	scrted).	1.5	6.0+
Do,	Fine sand and silty fine sand, dark gray;		
	lacustrine.	0.5	6.54
Do.	Clay and silty clay, dark gray to nearly		
	black; lacustrine.	1.0	7.54
Do.	Medium sand, some coarse sand, very clayey		
	(clay decreases downward, sand becoming		
	cleaner); very dark gray; lacustrine. Base		
	not reached.	1.0	8.54

SWI/4 cec. 23, T. 21 U., R. 29 D. Startingsplik scatton emposed in scarp of deflation basis. Sop of section 3,893 \pm 4 ft altitude.

Geologia unit	1980377600	Constitution of the Consti	The hote	Deuth 'feet!		
Fallon fin.	Pine-redium and madium sand with some g	2222	(Sop)			
	(grat is mostly bute fragments and base	iltic				
	legalli from Upsai Rogbeck); probably r	mrily				
	Lecustrine, possibly partly colicu.		3:	3.5		
	Disconformity.					
letta wat.	Clay, clave-grear-gray; lemetrine.	74	2.54	5.5%		
Do.	Clay, olive-green-gray to derk grayich					
	green; ostroceda; lacustrina.	2	0.75	5.24		
ro.	Medium sand, rust-brown, gray, blash					
	(beselvic asserial prominant); thinly					
	lominoted, lemmas 1/4 in. or less; nel	i.				
	indurated. Lecusiative.	57	0.3	6.50		
K 44.	Clay, olive-grows-gray, rlightly sandy.					
	some commodis; lest butter postings of fine					
	ರಾಜಕ್ಕ ಕಲ್ಲಿಕೆ ಗರರ್ಜಿ ಕರ್ನಾಹಿಸುತ್ತು ತ ತರಗ ಹಿಡಿದು					
	Granulce 1/8 in. or less dram.; possible	.6				
	fish-bose fraguetis; byome end black					
	steining along Tractures. Lecustrine.	i.	2.0	8.53		
Do	Volcamic ash, silt-like, white;					
	lecusivine.	5	0.15	8.74		
No-	Clay, daris clive green, with catracofs;					
	leasy perbings of fine send with ostre	oics				
	lectriniae.	6	0.4	9.3		
Σo.	Sond, fine, tam. with oftroctic;					
	lecurtrine.	ÇALA B 1	0.3	9.21		

2s (continued)

Geologic umit	Recription	Unit	Thickness (feet)	lepth (feet)
Color Files	Clay, olive-grass-gray; ostracods;			
.orga ida	elickenning comment brown and black			
	stairs along fractures; lacustrine.	8	0.5	9.6
Schoo In.	Sand, fine, tan; ostracods; nadules of			
	livesia tura, some notules incorporate			
	cobracods; lacustrine.	9	1/4 11.	jariing
D.	Clay, come as 7.	J.C	0.5	10-14
Te.	Volcanie ash, white; lacustrine.	17	"Ilico"	(parting)
I.S.	Clay, olive green; ostracode and lensy			
	partings of ostracoa coquine; lecustrius	.12	2.5	12.64
i)c.	Saul, Mine; ostracols: lecuttrine.	13	0.15	12.7
ic.	filer, sene es 12.	14	0.9	13.64
led minimum and	Sead, fine to modien, yellow-brown;			
	well bedded, well somted; lesswortes.	75	0.6	14.2:
	Sand, file to medium, graydeh brown			
	mortiled sith sent browns well belded:			
	loomnimie less not empessi.	1.5	2.3	15.50

SEL/b sec. 19, T. 21 H., R. 30 H. Strubing colin section exponed in bank of former channel of Garson River. Top of caction $3,887 \pm 0$ it altitude.

GOOLOGIC UNIX		Whichmess (feet)	Depth (feet)
Fallen fo.	Sund, medium to convec small publies; in some		
	beder erosabedded; probably alluvial.	i.	44
	Wasonformity.		
Sekso fin., lower Mor.	Clay, olive-green box, (box enclosit;	4	
	lecentrine.	0.1	5.5
DO.	Volcenie ach, white, appears crossbedded;		
	upper ourface irregular with 6 in. relief;		
	in the contract of the contrac	0.62	5.60
70.	Cles. Clive-great, with totreroid;		
	Lecusorine.	0.7	6.35
Do.	Soul, file, brond, probably becalifes		
	mung ostreccés; issurtains.	0.15	6.50
Izo.	Clay, olive-green-grey, which ostracods.		
4	Buite can "like" 5 in. below top. Locustrine.		
	Base wow exposed.	1.25	7.74

STA/MEL/A case 19, T. El H., A. St. B. Jegar John in plays Sleet. 3,876; Lit altitude.

Caologia walk		and the statement of th		
7211m 2m	Sins such and silt, prophy sorted,			
	light grey; Lacustrine.		L. O.	1.0
Seboo Sh.,				
In a tip	Pluy - clive, loquettie.		9.5	3,5
~ 5.	The william swell, along 1997			
	browns Libertrine.		4 3 m	1 2 2
Do.	Clay, clive gray; lacuration.			
	Baze moù reachsă.		185	3.65
4				

3,885 ± 2 20 clima

22.50	A STATE OF THE PROPERTY OF THE	DOIS.	11 122	S Depth (feet)	TLES
Fallag	and the control of the second section		1,600 }	CHOOL-STREET, SHEETS CO. AND CORE.	LON
Secon In.,	to fright yellow: Longbrine	I.	0.2	0.2	
7.33 20 33	r. Olar, olive; leonataine.	2	3.7	3.0	
	Min, Book-greenish gray to gray:		*7 4 £	3.9	
4.	Commence of the second	3	0.0		
20.	Note this wisey broadlemovins.	è	0.24	4.2	
	They alive: whire well provides 0.2 2%.				
201	Funicens and, white, bard-communical	5	2.5	6.5	
~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~	Clay, olive, sort; parting of clean medium	6	0-15	5.85	
	sand, tem, at 8.2 % depth. Lecustrine.	ē.	1.85	8.5	
Wysmana a	Clay, light greenish gray, coft; lacustring	e. 8	2.5	11.0	
	The state of the state of the state of)	1.0	12.0	
Po.	Clay, variegated dark green-gray to black (locally ten); no H ₂ S odor; lecustring. 10 Clay, dark greenish gray; no H ₂ S odor.		1.0	13.0	
	Thin white volcanic ash parting 1.0 ft				
	below top. Lecurtrine. Have not reached II		1.54 1	4.5	

Edjacent to IR series sec. 25 1. 21 1., A. 30 E.: 5.885 & 5 Th alkitude. ISCA mater test boreholm, so. 81 in Stabler (1904) report; totar Level 18 re kelow surface in 1904.

	GEOLOGIC	中,我们就是一个人,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的		
П	The second of the second secon	Commence of the commence of th	11100000	Lepva (feet)
	Palen in.		0.5	0.5
	Sakoo fim.	Yellow clay.	8.5	9.0
	Iby lower roy.	. Waite salt (volasmie esh).	0.2	9.2
	Sec		e de la companya de l	16.2
	Weste In.	Blue eieg.	2	18.2
	Lo.	Mact earl.	(france)	19.2

Ligoueur to RE to. sec. 87, E. E. T., E. 50 E.; 5,685 2 5 ft Mitirale.

LSON valor test borebole. ep. 60 in Stebler (196%) report; valor level

8.5 ft below serious in 190%.

		ne man en	Finel ress	Depth (feet)	
Vellon de.	Twomm.		0.5	0.5	
Sekso In.	Tellos siny.		7.5	8.0	
Typestes the			Ĭ.	9.0	
7.3.			3	12.0	

NEL/6 not. 27, 2. 21 S. . R. 30 B. Strebbjrrybie service exposed in scarp of Seffection beats, and 2 Strebbyrr boke in benth floor. 3,878 & 4 ft cititude.

		Mildsigos .	Depole
CEE'S	The second of th		(Cees)
Fullem .m.	Rejta syd eolfan send.	75	7
	Liseonformity.		
Schoo iz Largo mon.	Clay, olive-green-gray: lootstring.	2.	94
20-	Folcaulo ask, dirty whate, cili-sized,		
	erméty lescourins.	0.35	9.152
Te,	Clay, chive green, with commonde;		
	lecunicine.	1.5	10.652
t _o .	final, action to fine, brown (basaltie?),	la)	
	cintulati estreoche lentskrize.	0.25	10.92
7° m	film - phine press, softling title bross and		
	Figure crassesses is moved as Boss ont		
			11.90

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27 27	. 20 PTV 92	to the second	11 5
Stice Mi		* *	
**************************************	Olan climent of the control of the c	200	0,5
The state of the s	Paids brown as purposent, or a substant of Ma		
	a vitti i	3-3	\$ 14
	the artist government to the		
	The section is a section of the sect	4	
	joines a pinning las poles.	23	5.00
Ic.	Volcouir best eliterises, verse; lerustrice.	0.5	In the second
The in	View withers a gray of the color than the	3.0	Etz
Co.	State Beather Morror taken in the last makes	0.4	6.99
in.	set of the problem to the or and the		
	division that the best weeks	*	
		5 "	

AN CERCLE II. TO THE LEASE OF T

ant watawi

THE /SHEE/A see. 29, T. 21 U., A. 28 E.; 3,920 ± 5 Pt cititude. 1904 voter test tomobole, no. 148 in Stablez (1904) report; rater level 15 Pt bolow surface in 1904.

Geologia	A service and the service of the ser		Depth
THE TELESCOPE OF THE PERSON AND THE	Describbles	an an destruction and comment of the	(feet)
Tegereta Ka	Senā.	30	10
25.	Ireb clav.	.5	12
Bo.	- Mellor cami.	2	1h
Do.	Black cand and clay.	i, i,	18

SEL/LSEL/4 sec. 35, T. 21 N., R. 27 E., a few hundred ft W. of Southern Pacific R. R., on floor of small interdune basin within the high deflation plain east of the Ect Springs Mts. 3,950 4 5 ft altitude.

1904 water test borenole, no. 147 in Stebler (1904) report, no. 1 in Clark and Lee (1916) report. Dry in 1904, water at 21 1/2 ft in 1915.

Geologic . unit	Describison	Thickness (feet)	
Wyerche fm. (top fev incl may be youngs		20	20
Do.	Clay, silt, and coarse sand.	2.5	22.5
Do.	Sezā.	2.5	25

S1/25E1/4 sec. 33, T. 21 N., R. 28 B.; 3,920 ± 5 ft altitude. 1904-1915 water test borehole, no. 118 in Stebler (1904) report, no. 2 in Clark and Lee (1916) report; water level 6 ft below surface in 1904, 2 ft below surface in 1915.

Crologic unit	Pescriptics		Thickness (feet)	Depth (feet)
Pallen Sn.	5135.		0.5	0.5
Nyembe fa.	Yellow stad.		5.5	6.0
Do.	Fleet sand.	, i	2	8.0

MEL/4 sec. 31, T. 21 F., D. 29 E. Auger hole in alkali flot beside

Fallon-Larakook outoff; about 3,905 ft altamade.

The second transfer and transfer and the second transfer and the second transfer and transfe	TO A SECOND CONTRACT OF THE PROPERTY OF THE PR	Welceaess (Sect)	logia (feet)
Follow En.	Fine saud and grid and small pobbles. Sind i	.s	
	baselt, olivine, quarts, felicper, and bufa		
	fragments; grit sud pebbles are basaltic lapi	113	
	and come tufe fragments. Unconsolidated. Sol	ian. 0.5	0.5
	Disconformity.		
	Layers 1/8 to 1/2 is. Which of baselt lepilli	· ž	
	gray and () and gray sand, somi-indurated;		
	probably legistrine.	0.5	1.0
To.	Silt, very kard-cemented.	0.05	1.05
200	Basaltie logilli and sand, dan't gray to brown		
	thinly interlaymed; semi-infurated.		
	Protobly Leousteins.	0.75	1.6
20 .	Jius send, boom, est medium comi, besaltis.		
	Levi. Indubly loomstowns.	1.0	2.8
(ish? (sili-cisid), sami-isdamitet.	0.1	2.9
)o	Tibe some with some making coult-offers.		
	lesek graine, krom remonskannsked.		
	Felipa or Reservatus.	3.0	5.9
Do.	Fine soud with medium to occase sand		
V	partingo; many becaltic end clivine greine.		
	Foliez or leosatrino.	3.0	6,9
The second	Very fine send end elli, brown; lacustrine.	1.0	7.9
X5 -	Garay ciling clay; leavetoning.		
	Leve sti stocklei.		

SEL/A sec. 31. V. 21 H., B. 29 H. Auger inde in climit flat, beside Fallon-Lovelock outsif; shout 3.897 ft altitude.

Geologie mix		Widness (feet)	Degrad (Acerd)
Tyerias in.	Saul, brown resy solvy. Lecusimins.	0.75	0.75
Do.	Silv , come chnimed medium and comme saud,		
	two, partly commuted by welt. Leonotrine.	1.5	2.25
ite.	Rollin coul custables . Lemmining.	0.1	2.35
Do.	Bility medium soud, almost empirely basabble		
	graduc; dark gray, top 1 in. bleck. Lacustries	. 1.25	3.6
	Ologo gray. Indicapine.	3.5	
F2-7 11	Clay, gray, thin 1/2-in, hences of bossible		
	resis, bleek to rush-brown, combaining becalibie		4.0
	ani mili-rounded querts grains. Levustrine.	7.5	6.6
Do.	incy, alive; 1/4 is, white tolerale are particu		
	si dene. Destribula.	0.5	6.
Za.	Clay, chive gray, with teal blue actules.		
1	Lemistrine. Becamon received.	0.5	7.6

WEL/4 Sec. 35, T. 21 W., R. 30 E. Strangesphie section exposed on south side of large deflection basin about 2 1/4 miles E. of Timber Lake. Top of section 3,885 4 5 ft altitude.

Geologia welt	Desertion	Unit	Thickness (feet)	Depth (feet)
failing fig.	Sand, flue to medium, dark gray. Tith		Aller (1907) (1907) - Aller (1908) (1907) (1907) (1908) (1908) (1908) (1908) (1908) (1908) (1908) (1908) (1908)	Company of the Compan
ma(or)	much coeree sand and granules, brown-gra	Z.V		
Pergodi fie.	and black limestone fragments. Folian.	1	2.0	2
	Misconformity.			
Senoo in.,	Clay, medium to dark clive gray; blocky;			
Lover mar.	ostrecods; come lentiquier partings of			
	estracca-rich fine sand as much as 1/8 i	li.		
	indels lengthing.	E.	5.0	7
)o .	Sand, Sier, tar; lecustriae	3	0.05	7.05
io .	Clay, some ca 2 above.	L.	0.1	7.15
A.	Soud. Legipoint palicolet brown, great a	M.C.		
	block, poorly corred, vell indurated, la	mines		
	1/8 in., probably baseltie. Lecustrina.	, F	0.25	7.4
Is.	Clay, some as 2 above, blocky to lawingt	ed;		
	also some brown and black staining on			
	fractures. Labustrine.	6	1.9	9.3
30.	Polosnic ash, silv -sised, white to pale	3		
	gray. Lacustrius.	7	0.25	9.55
7				

& (continued)

Geologie unit	COLLINGUAR DE LA COLLINGUA DE	Coas no.	Thlemess (feet)	Depth (feet)
Selico All.,	Clay, seme es 2 above.	8	1.0	10.55
low min	2		,	
(continued)				
30.	Send, fine; ten, brown and orenge brown,			
	laminated, ostraccie ebundant.		i e	
	Lacustrine.	9	0.15	10.7
)o.	Clay, same as 2 above.	30	0.7	The state of the s
)O.	Volcamic ash, white.	27	nliken	
Der.	Clay, same se 2 above.	12	1.4	12.8
. O.	Volcenie sch, white.	13	"Line"	
Let .	Clay, sees as 2 above.	14	4.0	16.8
Mereka in.	Sand, fine, sust brown (bose tot			
	exposed). Leaustrine.	17	2.0	17.8

- B

Claricanta mile I. Li orcher see. 2, 2. 40 II., 4. 30 II.; 3,682 g 5.65 elbitude. 1964 putter wast tensible, no. 77 in Stobler (1964) report; tuber level 15 2% below survices in 1964.

201020	and the second section of the first second section in the second section of the second section of the second section section sections.	CONTRACTOR OF THE CONTRACTOR		
angulatur Salaman rasawa salaman arawa Salaman rasawa salaman arawa	The state of the s	and the contract of the second	Company Company	(Correction)
Fell. 1 12.	Charges I see.		11.	Ž,
Do.	Cord.		L	E.
Dr.				ξ
. C.	"Butto only" This pic on 1		5,5	6.3
36.7 Min			3.7	3, 3
	Control of the second of the s		\$5	3,2)

bb

Near HW cor. sec. 3, T. 20 N., R. 30 E.; 3,885 4 5 ft sititude.

1904 water test borehole, no. 49 in Stabler (1904) report; water level

20 ft below surface in 1904.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Seleo fm.	"Self-rising ground".	0.5	0.5
Do.	Yellow cley.	6	6.5
Do., lover mbr.	Sand.	1	7.5
Do.	Cley.	1.5	9
Do.	"White salt" (volcamic sah).	1	10
Do.	Clay.	7	17
Wyenshe in.	Sand and clay.	3	20
Do.	Flack send.	2	22`

Live

WEL/WEEL/2 sec. 6, T. 20 N., R. 30 B.: 5.890 5 5 % clithride.

1904 water test borekole, no. 99 in Stablor (1904) report; water level 11 ft below surface in 1904.

GCOLOGIG		Tulebuese (Sect)	Depth (feet)
vallor in.	Samā.	·	1
Seino im.	Tellow clay.	5	6
islower bur.	Tellow send.	0.5	6.5
32.	Telion eleg.	1.3	8
Do.	"White cols" (volcanie ask).	0.5	8.5
The a.	Tellar clay.	6	14.5

SEL SEL & sec. 9. T. 20 H., R. 27 B., chout 1/0 mile B. of Southern Partite R. R., or floor of deflection basin; 3,970 ± 5 ft altitude. 1904 vater test borehole, no. 145 in Stabler (1904) report, no. 8 in Clark and Lee (1916) report; rater at 21 ft in 1904; 17.2 ft in 1915.

Geologic usi:	Description	and the second s	The sales are an experience of the	Trickress (feet)	Lepth (feet)
Hyeness in., (top several inches may be younger)	Commence of the second	Samuella e de la companya de de la company	and the second s	### Perilmentensen in Perilmenten in Bill (1994) in St. (1997) in February in St. (1997) in Feb	1
Do.	Clay.			0.5	12.5
€.	The State of the S			0.5	ıź
Do.	Clay.			30	13
Do.	Sand.			· C	20
Do.	Eleck sand.		t)	Ž.	24

4e

Center sec. 11, T. 20 H., R. 30 E.; 3,885 ± 5 ft eltitude. 1904 water test borehole, no. 78 in Stabler (1904) report; dry to bottom in 1904.

Geologic . unit	Description		Thickness (feet)	Depth (feet)
Fallon fm.	Sand.		0.5	0.5
Sehoo 2m.	Clay.		6.5	7
Do., lover mbr.	Sand.		0.5	7.5
Do.	Yellsw cley.	*	1.5	9
Do .	Sand.		1	10
Sehoo fm.	Yellow clay.		6	16
Wyensha fm.	Yellow sand.		7	23

Near center sec. 12, T. 20 N., 3. 30 N.; 3,885 i f ft altitude. 1904 water test borehole, zo. 79 in Stabler (1904) report; water level 20 ft below surface in 1904.

Company of the second s	a that the field of the trust materials are the materials that the control of the	The state of the s	Thickness	
num il i. Li Lidi et minimum manimum montres	RECORDING CONTRACTOR OF THE PROPERTY OF THE PR		(Seet)	(feet)
Felior in-	Clayer loca.		Ē.	Łį.
Selsoo fin., lower miss.	White salt (volcanic esh).		2	5
20.	Tellow elega		8.5	13.5
THE COLUMN	Wellet On grey same.		6.5	20

Sw/4 7, T. 20 N., R. 31 E. Stratigraphic section exposed in drainage cancil bank, and augar hole near M. edge of Stillwater Lakes plain. Top of section 3,880 \(\frac{1}{2}\) 3 ft altitude.

Geologia wit		Thickness (feet)	Depth (feet)
Felica fa.	Sendy, clayey silt, poorly sorted, black;		-
	incustrine.	1.34	1.34
	Biscomformity.		
Seboo Am.	Silk and silty clay, pale greenish gray to		
	nearly white (volcanic ash) interbedded with		
	reme light olive-gray clayey silt and silty		
	elay. Locustrine.	2	3.34
X 0.	Sility clay, olive gray, with a few partings		
	of very fine send (miceneous). 1/2 in. white		
	ash torving 2 ft below top of bed. Leoustries	in the same	7, 36

SWL/4 sec. 16, T. 20 N., R. 30 N. depends stretigraphic section exposed in bank of channel connecting Likes and Papacse lakes; top $3,905 \le 2t$ altitude.

Geologia	Description	Thicksess (feet)	Depth (feet)
Felion fa.	Course, medium, and fine send (highly	eer cultus Jurrorain ruministity Junioristicum	statem was the fact that
	quartzose), loose (uncensated). Holien sand.	0.14	0.14
	Discomformity.		
Turged fu.,	Wery fine, fine, and medium sand and coarse		
bearing	pebbly send, interbedded; elightly miccreous;		
Lios devol	yabbles rarely to 1/2 in. dien.; He and Ma sta	INC.	
(eroded).	in coerse beds; strongly crossbadded. Eolian.		
	Top several in. poorly sorted with moderate so	11.	
	lime concentration (eroded Gee korizon of Toye	t.	
	soil); remainder is moderately well sorted and		
	1:55-220.	2.35	2.44
	Vaccefornity representing subserial erosion.		
Sakoo im.,	Very fine sand, ten; some iron onide podules.		
wyer idr.	Lacustrine.	0.14	3-34
Do.	Chay, brown; gradational lover boundary.		
	lecusivice.	200	6.34
Main Later	Sulty clay, very black, highly carboneceous;		
fn., upper	march or swamp fluvic-lacustrine or lacustrine		
mor.	ésposiú.	0.54	6.8
	Discomformity.		
Selico fin.,	Souty clay, about 5 percent send in top 1/2 ft	2	
dendritie	grading less sandy downward; olive green with		
mbr.	turquoise blotches. Lecustriae.	1.5	8.34
Do.	Cley, bluish green with rusty blotches;		
	ostraccas. Leaurtrine.	2.52	9.82
	Sandy clay, olive green with teal-blue blotche	6.00	
	15 to 20 percent send; lecurities.	1.54	11.34
	24.74		

HWI/W see. 21, T. 20 E., B. 28 E. Canonal etratigraphic section exposed in semple 8. edge of large delibrion plain. Ecp of section about 3,980 ft elibrists.

The same of the sa		(feet)	Depon (feet)
Fallor in.	Fine to rediting and course sand, some grit and		
	a few small pebblec; uncommited; locally		
	eressiedded. Holies.	E.C.	54
Verepak in,	Send, estiler to above, bearing nearly full		
Bonning Reven	profile of Toyon soil (0.54 ft oxidized	*	
SCII.	borison, brown-ter, and 0.84 fo calcareous		
	harden, light pinkisk gray) at top. Lover		*
	pert has no grit or pebbles. Bolian.	4.8	9.84
	Disconformity.		
Boist Sm.,	Sile, ver 1/2 24 grading democra to mostly		
una chiar	rilin trup Clar seed out room fine seed; light		
Entrika bini.	grow leady in.	2.03	
Selve in.,	Silv. come very fine savd, both light grey, and		
mine 12)	cilty clay, light greenish gray. Leoustrine.	I so the	13.35
Scioc Mass	Clay, dark greenich gray; commonly silty.		
dendrátic	capetially is top 1/2 ft and in lower 1 ft;		
ena/on	grokes into citt unit below. 1/2 in. white		
lere nime.	Toloride can legar (lesslig lime-cemmica)		
	3.5 %t below top of wait. Leaunizine.	5.50	16.5

Aljectat to MF corner of sec. 13, T. 20 N., N. 29 E.; 3,895 ± 5 ft altitude. 1904 water test borehole, no. 93 in Stabler (1904) report; water level 17 ft below surface in 1904.

Control of the second of the s		Thickness (feet)	Depth (fact)
Fallon fm., upper mbr.	Black losm.	2	2
Palion fm.(?)	Soud.	7	3
So.	Clay.	7.5	4.5
The second secon	Seed.	0.5	5
Seine Im.	Wellow eley.	9	34
20.	Sand.	0.5	14.5
Do -	Wellow clay.	ž.	18.5
W -	regretation of the second	l.	10.5

MWI/AGWI/4 sec. 14. T. 20 E., R. 28 E. General stratigraphic section emposed in some at 8. adge of large deflation plain, 1.1/3 miles 8. of Typeal Hagback. Toy of section 3.967 ± 5 ft elitities.

The second secon		Thickness (feet)	Depth (feet)
Pallum and	Fine-madium, medium, and coarse send, with some	2	
	gris and small pabbles locally; loose to local	le constant de la con	
	semi-indurated; somewhat erosabeidad; colism.	104	1.00
	Diseoudownity.		
	Clay and silt, light to medium gray,		
lecer nor.	send-interoted, well bedded; leaustrize.	3 P	170
Spendie for	Wedium and fine sand, yellow to medium gray,		
	well corted, well bedded, poorly consolidated;		
	The control of the same of	70	545
Do.	Fine sand, milt, some clay, thinly		4.
	interbedded; Lacustrina.	51	29:
Do.	Coarse, medium, and fine sand; interbedded;		
	dark gray, highly endesitic or basaltic;		
	generally well indurated, well bedded.		
	Lecustrine. Brobably correlative with late		
	Cruptions et Upsal Hoginack. Base not exposed.	102	394

6a (continued)

Seboo im., Silt, dark gray and comerciat clayer at top

lower par. greating to ten grey fine souly cilt near bace.

Lecurorine. 5.0 ≥ 23.8 ≥

27.84

Slary, even, conformable contact.

Wyenshe fm. Pine sand, light to medium gray with rusty

ctrecks; come thin dorder gray oilt and cilty

fine send partition and paper-thin limentite

partings, deep rust-brown, near base.

Lecustrine. Esse not exposed.

Note: A water-test testhold said in 1915 (no. 25 in Clark and Lee [1916], so the NW corner of this land section) is about a quarter-mile NW of the bottom of the shore stratigraphic scotton, and the top of the borehole and bottom of the section are approximately the same stratigraphic horizon. The borehole log is: also that he has sent, I to 16 ft; water level 13.0 ft in 1915; only Wyenels formation was penetroical.

SWI/4SEL/4 sec. 21, T. 20 H., R. 28 H. Stratigraphic section exposed in scarp of deep deflation basis, and 5 ft auger hole at base of scarp. Top of section about 3,990 ft altitude.

Geologic walt	Deecriptica	Thickness (feet)	Depth (feet)
Fallon fr.	Fine send with coarse send and much grit,		
	a few peobles to 1/4 in., rarely 1/2 in.,		
	even at crest of duce; exosabedded. Folian.	85	8*
	Disconformity.		
Enrupok fm.,	Sand Like above, colian. bearing Con harison		
derjog Tojet	(eroded) of Toyeh soil. 0.2 in. (locally		
soil(erosed).	eroded) white layer at top that may be partly		
	volcanic ash but has much soil lime. Essal		
	l in. of west locally mest-stained.	0.8-1.0	94
	Disconformity.		
Seioo fal	Silty clay and very fine cand, clean, pale		
uguer sha.	ten-gray to meanly white; liny, mottled with		
	visite soli lime. Lecustrine.	0.05-0.2	92
It.	Moraly fine send 1-3 in. of poorly corted		
	ecanos, medium, and time send locally of top		
	and st base. Parallel bedded, probably		
	leatstrike.	0.74	9.75
	Missonformity. Undulating erosion surface.		
	Medium sand, yellow-brown, slightly cemented;		
	appears to bear incipient soil (top is		
	non-calcareous, lower part appears to have so	arre and a	
	spil-lime concentration). Perallel-bedded.		
	Lactetaine.	0-0.5	704

7 (continued)

Seboo fm., Sandy silk and cilty sand, dark chocolate brown, much soil lime; parallel bedded; upper mbr. 0.44 10.44 lecustrine. Disconformity. Indian Lakes Fine-medium send, light gray; colien. Top fm., upper mor. is ft has some coarse sand; middle 0.5 to of Late 14 ft is slightly lime-comented, overlies Seloo age. very irregular exosion surface; lower 0.5 to 1.2 % is uncomensul. 13.44 33 Fine sand, well sorted, parallel-bedded; Sehoo fm., 13.84 upper minr. lecustrine. 0.44 Silt and very fine sand; top 5: in. brown-gray 20. to medium gray silt with very fine sand partings; middle 7+ in. light gray very fine send; bottom 6: in. is silt end a little very fine sand, laminated dark brown-gray, dark gray, 15.30 come medium gray and light gray. Lacustrine. Disconformly, unfulsting erosion surface. Do. Fine sand and fine-medium sand, well sorted, some partings of basaltic(?) send, possibly from Soda Lake eruptions; lower 1 ft has some coarse sand; local 1/4-in. somewhat cemented light gray very fine said (ash?) parting at lis 19.30 bese.

Disconformity.

7 (continued)

Seloo 24.;	Coarse and medium sand, with fragments of pale		
denaritic mbr. (?) gray platy lithout tufe (0.1 in. thick);		
bossipil pesain	g megium brown, elightly indurated and		
Harmon School	lime-comented; possibly bears eroied weak		
soil (erched).	soil. Lecustriae.	0.3	19.64
Sehoo fm.,	Very fine send and fine send, well sorted,		
dendritie	umindurated, micacecum, pale gray; loose and		
mbr.	Mour-like. Lecustrine.	0.55	20.14
Do.	Silt, light tan-gray, well corted. leanstering.	0.3	20.42
Do.	Clayey silt and silty clay, interbedded, light		
	to medium gray. Lacustrine.	0.34	20.74
To.	Silt, pale gray, interbedded very fine sandy		
	silt to clayer silt.	2.6	23.35
Do.	Very fize send, well sorved, pale gray.	0.2	23.54
Do.(?)	Silv and very fine sandy silv, slightly		
	coherent, light grey. Leaustrine.	3.04	26.50
Steel Lines	Clayer silt, somewhow michesome; ortracode;		
lover nor-	some selenite; madium gray; thinly laminated,		
	semicoherent, fissile. Lacustrine.	1.04	27.54
Do.	Silty clay, semi-indurated, medium gray;		-
	vell bedåed; ostracods. Lecustrine; grades	år	
	to clayey silt and silty clay near base.	7.55	35.04

Sharp, even, conformable contact.

7 (combinued)

Wyenaka fm. Medium and fine-medium soud, some interbodded fine mand; moderate yellowish brown (10 KR 6/4) to pale gray (particularly yellowish in upper part). Probably all lacustrine. Base not

reached.

42

SWI/4SWI/4 sec. 20, F. 20 N., R. 30 E.; 3,905 ± 5 ft altitude. 1904 water test borehole, no. 94 in Stabler (1904) report; dry to bottom in 1904.

Geologic unit	Description	 Thickness (feet)	Depth (feet)
Fallon in. and Sekoo in., upper mbr.	Send.	8	8
Seico fa., upper mir.	Cark clay.	2	10
Do.	Treb clay and send.	3	13
Selvo fm., dendritic end(or) lover mbr.	Tellow clay.	7	20
Sehoo fm., Lower whr.	Tellow send.	0.5	20.5
ĵo.	Drab clay.	2	21.5
De .	White layer (volcanic ash).	0.5	22
	Wellow clay.	3	25

d7

SWL/4SWL/4 sec. 22, T. 20 M., R. 30 E.; 3,905 ± 5 ft altitude. 1904 water test borebole, no. 87 in Stabler (1904) report; dry to bottom in 1904.

Geologic unik	Description	Thickness (?eet)	Depth (feet)
Fallon fm.	Loam.	0.5	0.5
Do.	Sand-	<u> </u>	4.5
Do.	Sand and clay.	6.5	17
Turupah foi.	White sand.	2.5	13.5
Sehoo Im.	Yellow clay.	LO	23.5
Sehoc fm., lower mbr.	"White selt" (voleanie ach).	0.5	24
No.	Tellow clay.	2	25

About 1/4 mile S. of center sec. 23, F. 20 F., R. 30 E.; 3,865 & 5 ft altitude. 1904 reter test borehole, no. 88 in Stabler (1904) report; dry to bowtom in 1904.

The first of the state of the s	TO THE STATE AND	and the state of t	Pricings (Seet)	Depth (feet)
Pallon fr.	Said.		8	8
Io	Bleck cley.		Ł,	12
Secro fin.	Tellor eleg.		8	20
llo., lower mor.	"Whive salt" (volcamic aub).		0.2	20.2
Do.	Yellow clay.		4.8	25
Tyrnaka 2m.(t)	Elme eleg.		1	26

Hear center sec. 24, T. 20 N., R. 30 H.; 3,835 ± 5 ft altitude. 1904 weter test borelole, no. 89 in Stabler (1940) report; dry to bottom in 1904.

Geologie wit	Pescettican	en er en	Fhiches (feet)	Depth (feet)
Fallon fa.	"Self-ricing ground".		0.5	0.5
Do.	Dark loam.		4.5	5
Seloo fr.	Mellow clay.		10	15
bo., lover mor.	"White salt" (volcenic ash).		0.2	15.2
Tion o	Wellow clay.		1.8	17

Sec. 30, T. 20 N., R. 31 E. Auger hole near SW edge of Stillwater Lakes plain. 3,880 ± 3 ft altitude.

Geologic wit	Description	Thickness (feet)	Depth (feet)
Pelica fm.	Silt, grading downwerd to clayey silt; black;		
	soft, mearly white lime applies in lower 1 ft.		
	Letustrine.	1.54	1.5±
Do.	Clay, somewhat allty, olive-gray; lacustrine.	0.3 <u>+</u>	1.83
Turupak in.(?)	Fine sand, well sorted, light olive tam;		
* _{No.}	eolian.	0.7	2.5
Do.	Silvy clay, drah olive-gray; lacustrine.	0.2	2.7₺
20.	Fire- and fire-medium send, well scried,		
	light olive ten to nearly white; colien or		
	elluvici.	1.3	4.04
Seboo ta.(1)	Silty fire soul, fire-sendy silt, and silt,		
	interhadisi; madium tem-gray with slight		
5	Olive cast; lecustrine.	0.7	4.75
Senoo in.	Sility clay, medium ten-gray with alight		
	olive cost; lecustrine.	1.54	6.24

NML/4 sec. 25, T. 20 S., E. 29 S., 3,905 & 5 St altitude. 1904 water test torribole, no. 96 in Stablar (1904) report.

COLOGIO COLOGIO COLOGIO COLOGIO	eres subrementamente de reculere subremente en entre de reculere de reculere de reculere de reculere en entre c Companya de la companya de reculere d	د المعلق الم والمعلق المعلق المع	Trickiess (Text)	Depth (feet)	
Selen Zm., upper mar.	"Solf-rising ground".	14.00	2.5	2.5	
Do.	Saut.		* * * * * * * * * * * * * * * * * * *	4	
îë.	Saud end clay.		3	F .	
Seboo fa., Sestritio esd/o Loses ebr.	Tellor clay.		8	15	
135.	Tellar soud.		0.5	15.5	
Occo 2m., land with	Teller eley.		2	17.5	
Do.	"Weive celt" 'volcamic ash).	- 3	0.5	18	
96.	Tolics clay.		2	20	
Per Carlo	Part sary.		E	22	

NEI/48W1/4 sec. 29, T. 20 N., R. 29 J. General section across scarp of deflation basin (partly exposed by borrow pit), on E. side of Fallon-Lovelock cutoff. Top of section about 3,955 ft altitude.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Fallon fm.,	Fine, medium, and coarse sand, poorly sorted		
upper mor.	unindurated, locally crossbedded. Holian.	2-7	5±
	Disconformity.		
Fallon in.;	Fine to medium sand, poorly sorted; locally		
lower mex.,	crossbedded. Top 1/24 ft shows slight lime		
bearing "L" Drain soil	concentration, probably eroded Cca soil		
(eroded).	horizon.	34	8*
	Disconformity.		
Turupah fa.,	Fine-medium to coarse send with some granules		
besming Toyth	and small peobles (quarta, olivine, and basalti	e	
soil (eroded).	grains and pebbles; some fragments of clay and		
	of early lithoid tuis of upper Sehoo in lover		
	2 ft); strough; exossbedded, with local		
	disconformities. Bolian. Top 1-1 1/2 ft		
	somethat line-demented by Cos horizon of Toyeh		
	soil (top part of soil is here eroded)		15 <u>÷</u>
- A-	Disconformity.		
Sehoo Im.,	Clay, tan, lacustrine.	0.05	154

7g (continued)

1					
	Sehoo fm.,	Very fine sand, thinly laminated, contains			
	upper mbr.	biotite; well indurated (breaks into hard			
		blocks), ten, with rust-staining along some			
		laminae. Lacustrine.	1.0	16+	
	Do.	Fine sand, tan, gray, ripple-marked; lacustrine.	0.3	16.3 <u>+</u>	
	Do.	Fine sand with partings and thin lenses of			
		silty clay. Large fragment of early lithoid			
		tufa of this member at base.	0.3	16.6+	
		Sharp, somewhat undulating contact; disconformit	y;		
		suggestion of subserial weathering.			
	Sehoo fm.,	Silty clay, light olive gray; well,			
(Lower mbr.,	parallel-bedded; prismatic jointing, which			
	probably	is closer in top several inches; sand dikelets i	n		
	bearing Harmon	some joints. Lacustrine. Top several inches		X-	
	School soil	appear slightly weathered, with slight soil-lime			
	(eroded).	concentration (probably lower part of Harmon			
		School soil).	3.0	19.6	
		Sharp, level, conformable contact.			
	Wyemaha fm.	Medium and fine-medium sand, coarsest at top;			
		yellow; well scrted; incoherent; well bedded;			
	*	lacustrine. Base not exposed.	1.0	20.6	

7b

NW1/4NW1/4 sec. 25, T. 20 N., R. 28 E.; 3,955 ± 5 ft altitude. 1904-1915 water test borehole, no. 109 in Stabler (1904) report, no. 26 in Glark and Lee (1916) report: water level 17.45 ft below surface in 1915.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Wyemaina fm.	Clay silt.	3	3
Do.	Sand.	3	6
lo.	Cinders.	3.	-
Do.	Sand.	11	18

Near SE cor. sec. 29, T. 20 N., R. 27 E.; 4,015 ± 5 ft altitude. 1915 water test borehole, no. 14 in Clark and Lee (1916) report; water level 37.5 ft below surface in 1915.

Geologie unit		Description	Thickness (feet)	Depth (feet)
Sekoo fm.	Sand.		1	1
Do.	Silt.		1	2
<i>i</i> 0.	Sard.		2	Ļ
. બ	Gravel.		2	6
% .	Send.		14	20
) .	Clay.		8	28
Co., or Wyers	zha Serà.		10 .	38

T20N, R27E., Wear NE cor. sec. 30, on floor of invariance basin; 3,995 \pm 10 ft altitude. 1904-1915 water test borehole, no. 144 in Stabler (1904) report; no. 13 in Clark and Lee (1916) report; ary to 20 It (total depth) in 1904, water at 28.9 ft in 1915.

Geologic unit	Description	Tnickness (feet)	Depth (feet)
Wyemaha im., (upper part may be younger)	Send.	3	3
Do.	Coerse sand.	33	6
Do.	Sanā.	22	28
Do.	Sand and clay.	2	30
5 0.	Bluich-green clay.	1 ₄	34

7k

Near SE corner, sec. 33, T. 20 H , R. 27 E., on floor of small deflation basin; 4,005 <u>*</u> 5 ft altitude. 1915 water test borehole, no. 18 in Clark and Lee (1916) report; water level 24 ft below surface in 1915.

Geologia univ	Description		Thickness (feet)	Depth (feet)
Seboo fm.	Sand.		6	6
Do.	Clay		6	15
Do.	Clay and sand.		2	14
Do., lower mbr.	Clay.	× .	8	22
Do., or Wyensha fin.	Sarā.		3	25

7 1

SWI/h SWI/h sec. 36, T. 20 N., R. 27 E.; 4,010 ± 10 ft altitude. 1904-1915 water test borehole, no. 140 in Stabler (1904) report; no. 17 in Clark and Lee (1916) report; dry to 15 ft (total depth) in 1904; water level 33.2 ft below surface in 1915.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Turupah fm., or			
Sehoo fm.	Sand.	3	3
Sehoo im.	Seré and fine grown.	9	12
Do.	Clay silt.	16	28
Sehoo fm. and(or)	Sand.	6	34
Vyenaha fm.			

N1/2551/4 sec. 33, F. 20 N., R. 28 E.: 3,580 ± 10 ft altitude. 1915 water test borehole, no. 30 in Clark and Lee (1916) report, dry to 36 ft (total depth) in 1915.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Fellon in.	Sand, colien.	1	1
Seloo fin.	Adobe and sand (alobe averaging 3 ft and		
	sand 1 ft).	16	17
Do.	Fine eaui.	6	23
00.	Adobe and sand (adobe averaging about		
	2 ft and sand 1 ft).	5	28
receis in.	Sand	8	36

Stratigraphic section at type locality for the apper member of the Schoo formation. Exposure in horrow pit at northern edge of deflation basin, about 100 feet west of Fallon-Lovelock cutoff road, in the SEL/4NW1/4 sec. 32, T. 20 N., R. 29 E.; top of section about 3,995 + 5 ft altitude.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Fallon fm.	Fine, medium, and coarse sand, pale yellow gray poorly sorted, locally crossbedded. Eolian.	۶,	
	(Morthward thickens to more than 10 ft and underlain by several feet of colian sand of the		
	Turupah formation, which bears the Toyeh scil).		21
	Disconformity.		

choo im., upper mbr., bearing Toyel eroded).

Coarse and medium sand with much grit and some pebbles (mostly less than 1/4 in., some to 1/2 in., and revely about 1 in. diem.); rather poorly soil (slightly sorted, indistinctly bedded. Leoustrine. Granules and pebbles mostly late lithoid tufa of the upper Sehoo, medium to dark gray or dark brown-gray; rere fragments of white early lithoid tufa of this member and of volcanie and granitic rocks. Top 2 to 4 inches is exide (B) horizon of Toyeh soil (field pH 6.8); next 9 to 10 inches is Gea horizon of this soil (partly cements the sand; pH 8.0-8.5).

> Contact gradational to sharp, screwhat undulating; local disconformity.

Sehoo fm., upper mor.

Medium sand, with some fine-nedium sand and granule-bearing coarse sand; mere fragments of early lithoid tufa of the upper Sehoo. Lacustrine. Mostly poorly consolidated; bedding lenticular. iccelly crossbeided. 5÷

6:

8 (continued)

Fairly sharp, nearly level contact.

Sehoo fm., upper mbr.

Fine-medium and fine sand. Thinly bedded;

upper half ripple-ercss-laminated, strongly

so in top 2 inches; lower half almost parallel

bedded; ripple marks approximately symmetrical.

A few small nodules of medium brown lithoid tufain top half; some fragments of white early

lithoid tufa of this mamber in lower half,

especially at base. Lagustring. 0.6-0.9 6.84

Sharp, somewhat undulating contact; discomformity; in places cuts bedding in underlying lake clay.

Semo fa..

Mostly silty clay, very light clive gray; lover 2 % is pale gray silt. Well, parallel-bedded. . Lacustrine. Frichatic jointing, which becomes closer in top few inches; sand direlets in some joints. For several inches appear slightly weathered (clay is discolored, fragmental, etc.); possibly lover part of Barmon School soil. 5-6

Sharp, Level, conformable confact.

Wyemahs in.

Medium sand, kight brownish yellow, well sorted, incoherent. Well, parallel-bedded. Lacustrine. Rase not exposed.

2 14.81

19.84

8a (I)

SWI/4 sec. 34, I. 20 N., R. 25 E. Carson River floodplain 3,930 ft altitude. Driller's log of vater well; owner, J. Conlan; Griller, J. J. Barry.

Geologic unit	lescription	Tulckness (feet)	Depth (feet)
Fallor fm.	Sand and silt.	6	6
Do.	Clay.	Į,	1.0
Seboo fm.,			
upper mbr.	Fine sand.	8	18
Seboo im., dendritic and/or	Clay, olive color.	- 2	20
lower mbrs.	+		
Do.	Clay, laminateā.	6	26
Nyenaho fin.	Cley, dark Prom.	2	28
Dc).	Exovm "shale".	10	38
X>.	Coarse gray sand.	6	essential and the second and the sec
	The state of the s		67.2

Adjacent to north 1/4 corner sec. 35, R. 20 N., N. 30 H.; 3,885 & 5 ft altitude. 1904 water test borebole, no. 90 in Stabler (1904) report; water level 18 ft below surface in 1904.

GGOLOGIC	Description	Michiess (feet)	Depth (feet)
Fallon fm.	Loam.	3	3
Do., lower man.	Derir clay.	r;	10
	"Tresc thits mist" (Tolonic son parting).	and age	re-j
Seboo im.	Tellow clay.	6	16

Li

MAL/4 sec. 4. T. 19 N., H. 31 N. Thain at S. and of Stillwader Lakes; 3,894 ± 5 ft albitude. Log of validation well drilled in 1914 by L. W. Crehore for Nevede Standard Cil Company.

Geologic UMAT		Inickness (feet)	Tepth (fest)
Fallon fm. and (mainly)	Tellow clay.	13.5	13.5
Sekon fm.			*
Relac file	West. "esed" tide set.	0.5	<u>j</u> , Ž,
lover mur.			4
Wyenebe ful-	Elue clay.	22	36
lo.	Black sand with a fur small fish bones.	38	74
Io.	Alus clay with thin shale of jot black clay.	26	100

About 600 ft S. of N. 1/4 marker, sec. 2, T. 19 N., R. 30 E.; 3,895 1 5 ft altitude. 1904 water test borehole, no. 64 in Stabler (1904) report; dry to bottom in 1904.

Fallon fm. Sand.	2.5	2.5
Thursday for University handward		
Turupah fm., "Alkali hardpan". bearing Toyeh soil(?)	0.5	3.0
Turupah fm.(?) Sand.	7.5	10.5
Sehoo fm. Yellow clay.	9	19.5
Do., lower "Trace of white salt" (white volcanic ash parting).		
مناعد و المناهدي المناهدي المناهدي المناهدي المناهدي المناهدين المناهدي المناهدي المناهدي المناهدي المناهدي المناهدي المناهدين		
Do. Yellow clay.	5.5	25

90

HEL/4HEL/4 sec. 4, T. 19 N., R. 30 E. 3,902 ± 3 ft altitude. 1904 water test borehole, no. 92 in Stabler (1904) report; dry to bottom in 1904.

Geologic unit	Description		Thickness (feet)	Depth (feet)
Fallon fm., upper mbr.	Dark loam.		2	2
	7			
Do.	Sand.		2	Ļ
Fallon fm.	Clay.		1	5
Do.	Sand.		0.5	5.5
Fallon fm., lower mbr.	Dark clayey loam.	•	6	11.5
Turupah fis.	Gray sand with clay traces.		6.5	18
Seboo fm.	Yellow clay.		7	25

NW1/4 sec. 3, T. 19 N., R. 29 E. Sagouspe irrigation canal, cut through vale between sand dunes; stratigraphic section exposed by trenching S. bank of canal, through highest dune, and 4.2-ft auger hole below bed of canal (fig. 18). Top of section, 3,941 ± 3 ft altitude.

Geologic unit	Description	Thickness (feet)	Depth (feet)
The state of the s			
Fallon fm.	Fine and fine-medium sand, unindurated, well	30.3	30 3
	sorted, pale yellowish gray; eolian.	10.1	10.1
	Disconformity.		
Turupah fm.,	Medium and fine-medium sand, eclien. Top 0.8	t 0	
bearing	1.2 ft somewhat indurated by buried Toyeh soil	- 3	
Toyeh soil.	which is locally more or less eroded; lower pa	rt	
	is unindurated, light rusty yellow.	1.8	11.9
	Disconformity.		
Sehoo fm.,	Clayey fine sand with some coarse sand (most		
upper mbr.	clayey in upper part); medium yellow, brown;		
apper mor.	lacustrine.	0.7	12.6
	Lacus II IIIe.	0.1	12.0
	Disconformity.		
Do.	Top 1 ft coarse to medium sand, with sand pebb	les;	
	clean; medium rust-stained; lower 1/2 ft fine		
	sand, clean, light yellow.	1.5	14.1
Do.	White lithoid tufa with manualary to irregular		
	form, arusy to smooth outer surfaces; locally,		
	thin black encrustations occur on outer surfac	es.	
	Early lithoid tufa of this mbr.	0.5	14.6
	Di goon Pormière		
	Disconformity.		
Sehoo fm.,	Clay, pale bluish gray to light olive-greenish		
dendritic and lower mbrs.	gray; lacustrine.	4.5	19.1
Wyemaha fm.	Medium sand, yellow, clean; lacustrine; base		
	not reached.	1+	20.1
	£/ =		

85

NW1/4 sec. 3, T. 19 N., R. 29 E. Stratigraphic section exposed in bank of Sagouspe irrigation canal, about 10 ft E. of westernmost fault in Sagouspe fault zone, and 7.3 ft auger hole in bed of canal (fig. 18). Top of section 3,933 ± 3 ft altitude.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Fallon fm.	Sand, pale yellowish gray, moderately well		
	sorted (mostly fine and very fine, some medium		
	sand, a little coarse sand and grit), indisting	etly	
	bedded. Probably eolian.	5.5	5.5
	Discomformity (erosion surface with 1 to 3 ft		
	relief).		
Sehoo îm.,	Medium sand, well sorted, some coarse sand, ran	re	
upper mbr.	pebbles to 1/2 in. diam. (about 20 percent are		
	andesite and baselt, remainder are rhyolite,		
,	granite, gneiss, thinolite, early lithoid tufa		
	of this mbr.), lower several feet are most pebl	oly;	
	mostly indistinctly bedded but locally dips to		
	25°. Lacustrine and alluvial (deltaic).	7.0	12.5
Do.	White tufa (early lithoid tufa of this mbr.).		
	Lacustrine.	0.7	13.2
Sehoo îm.,	Clay, light bluish gray and light olive-greenis	sh	
dendritic and	gray; lacustrine. Slight soil development in		
lower mbrs.,	upper 3 to 6 in. (Harmon School soil); locally		
bearing Harmon School soil.	eroded.	1.5+	14.7

NW1/4 sec. 3, T. 19 N., R. 29 E. Stratigraphic section exposed in bank of Sagouspe irrigation canal and 3 ft auger hole in bed of canal (fig. 18). Top of section 3,933* 3 ft altitude.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Sehco fm., upper	Mostly medium and fine sand, some silt;		
mbr., bearing	light pinkish-gray; lucustrine; moderate		
Toyeh soil	CaCO, concentration (Cca horizon of Toyeh		
(eroded).	soil).	0.6	0.6
Sehoo fm., upper mbr.	White tufa (early lithoid tufa of this mbr.)	1.0	1.6
Sehoo fm.,	Clay and silty clay, moderately well bedded,		
dendritic and	light gray; lacustrine.	5.0	6.6
lower mbrs.			
Wyemaha fm.	Sand, medium-grained, rust-colored, clean;		
	lacustrine	0.2	6.8
Do.	Sand, fine-medium grained, light		
	yellowish gray, clean; lacustrine.	0.5	7.3
Do.	Clay, brown, with mica flakes; lacustrine.	0.1	7.4
Do.	Sand, fine-grained, micaceous; several parting	gs	
	of silt and clay; 1/2-in. clay perting at		
,	base; lacustrine.	0.15	7.55
Do.	Medium and fine sand, interbedded; well sort	ed,	
	well-bedded (beds 1 to 5 in thick), rust,		
	brown, and yellowish-gray; lower 7 in.		
	micaceous. Lacustrine.	1.1	3.65

9f

NW1/4NW1/4 sec. 5, T. 19 N., R. 28 E.; 3,990 ± 5 ft altitude. One mile N. of Soda Lake. 1904-1915 water test borehole, no. 138 in Stabler (1904) report; no. 54 in Clark and Lee (1916) report. Dry to 25 ft (total depth) in 1904; water level 22.5 ft in 1915.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Sehoo fm.	Sand.	6	6
Do.	Clay silt.	10	10
Wyensha Im.	Coarse sand.	14	20
Do.	Sanā.	8.5	28.5

9g (L)

About 1,000 ft N. of SW cor. sec. 5, on line between secs. 5 and 6,
T. 19 N., R. 28 E.; 4,020 ± 10 ft altitude. About 1,400 ft N. of Soda Lake.
Water test well no. 55 in Clark and Lee (1916) report.

Geologic unit	Description	Thickness (feet)	Depth (feet)	
Indian Lakes fm., volcanic sand complex				
of Soda Lake	Volcanic ash and sand.	8	8	
Do.	Soft clay.	40	48	
Do.	Silt, very soft.	9	57	
Do.	Hard clay and cinders, in			
	interbedded layers.	18	75	

9h (L)

Near SW cor. sec. 5, on line between secs. 5, 6, T. 19 N., R. 28 E.;
4,060 20 ft altitude. About 600 ft N. of Scda Lake. Water test well no. 56
in Clark and Lee (1916) report.

Description	Thickness (feet)	Depth (feet)
Sand and volcanic ash.	6	6
Soft clay.	19	25
Coarse cinders.	0.5	25.5
Soft clay.	37.5	63
Hard clay and cinders	39	102
	Sand and volcanic ash. Soft clay. Coarse cinders. Soft clay.	Description (feet) Sand and volcanic ash. 6 Soft clay. 19 Coarse cinders. 0.5 Soft clay. 37.5

Near center sec. 6, T. 19 N., R. 28 E.; 4,000 ± 5 ft altitude. One mile
N. of Soda Lake, 1915 water test borehole, no. 57 in Clark and Lee (1916) report.

Geologic wnit	Description	Thickness (feet)	Depth (feet)
Sehoo im.	Sand.	12.5	12.5
Do.	"Adobe"	7.5	20
Do.	Silt.	2	22
Do., or Wyemaha fm.	Send, medium fine.	7	29

9 1

SW1/4SW1/4 sec. 6, T. 19 N., R. 28 E.; 4,005 • 5 ft altitude. Two-thirds mile NW of Soda Lake. 1915 water test borehole, no. 60 in Clark and Lee (1916) report.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Sehoo fm.	Coarse sand with thin layers of		
	fine sand.	9	9
Do.	Coarse sand and fine gravel.	. 9	18
Do.	Alobe:	12	30
Do., or Wyemsha fm.	Fairly coarse sand, slightly		
	cemented.	2	32

9 k

Near NW cor. sec. 5, on floor of small deflation basin, 4,000 ± 5 ft altitude.

1904-1915 water test borehole, no. 132 in Clark and Lee (1916) report, dry to

16 ft (total depth) in 1904; water at 21.0 ft in 1915.

		(feet)	(feet)
S11+		2	2
			6
Silt.	*	2	8
Gravelly sand.		Žį.	12
Sand.		10	22
		Silty clay. Silt. Gravelly sand.	Silty clay. 4 Silt. 2 Gravelly sand. 4

91(L)

NEI/4NW1/4 sec. 7, T. 19 N., R. 28 E.; 4,015 ± 10 ft altitude. One-third mi. NW of Soda Lake. 1915 water test well, no. 58 in Clark and Lee (1916) report.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Indian Lakes fm., volcanic sand complex of Soda Lake.	Fine sand and volcanic ash.	15	15
Do.	Coarse sand.	10	25
00.	Soft clay.	3	28
00.	Hard clay and cinders, interbedded layers.	147	75

50 2

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and the second of the second s	The second secon	ine Se Trans Se Trans (Laborator) Disson sentinghan (sept. or	
militar inites un ; Militario enos complex.	5ಪ್ರ ರೇಟಿಕ್ಕಿಂ, ಯಾಗಿ ನರ್ಗೆ ರಾಜ		
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in c	Saiderene Seinin bend-	4	57
-	All May the section of the section		
	layers. (dull mois reused).	here and the second	who were

9 n (L)

SW1/4SE1/4 sec. 7, T. 19 N., R. 28 E.; 4,000 10 ft altitude. About 200 ft S. of S. edge of Soda Lake, between Soda Lake and Little Soda Lake. Test well no. 63 in Clark and Lee (1916) report.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Indian Lakes fm., volcanic sand complex	Volcanic ash, medium fine sand,		
of Soda Lake.	end cinders.	14	14
	Same, with fewer cinders.	3	17
00.	Cinders and a little sand.	5	22
20.	Sharp silica sand, containing a		
	little mica and cinders.	1.5	23.5
Do.	Cinders the size of "BB" shot.	1.5	25
00.	Coarse send and cinders.	13	38
20.	Coarse sand, carries water off		
	rapidly.	8	46
Do.	Very fine black mucky silt; loses		
	black color on exposure to air.	16	62

SW1/4SW1/4 sec. 8, T. 19 N., R. 28 E. Stratigraphic section exposed in bluff on southeastern side of Soda Lake, from crest of ridge to lake shore; altitude of ridge crest about 4,085 ft.

Geologic unit	Description	Unit no.	Thickness (feet)	Depth (feet)
Indian Lakes	Lapilli sand; poorly sorted, unconsolida	ted		
fm., volcanie	silty sand with several percent of basal	tic		
sand of late	lapilli and a few larger basaltic bombs,			
Sehoo age,	very rarely as much as 1 ft in diameter;			
bearing Toyeh	generally indistinctly bedded; poorly ex	posed;		
soil.	probably subaerial.	1	38	38
	Contact poorly exposed.	,		
Indian Lakes	Grit and coarse sand, with several percent	nt ·		
fm., voleznic	of basaltic lapilli; some very small bas	alt		
sand of	pebbles; well sorted, nearly unindurate	d., ,		
endritic	moderately to well bedded; probably			
Sehoo age.	lacustrine.	2	8.5	46.5
Do.	Lapilli sand and grit, commonly more than	n		
	20 percent basaltic lapilli and commonly			
	with some very small to small baseltic			
	pebbles (mostly less than 1/2 inch dieme-	ter,		
	but rarely to several inches (bombs) in			
	some beds); lower part mostly well sorted	a,		
	low in silt and relatively unindurated;			
	upper part is moderately sorted, somewhat	t to		
	very silty, somewhat indurated, forms sm			
	cliffs locally. Contains rare water-wom	<u>n</u>		
	fragments of dendritic and lithoid tufa.			
	Lacustrine.	3	37	83.5
,	Sharp conformable contact.			

10 (continued)

Indian Lakes

fm., volcanic

sand of

denaritic

Sehoo age.

Silt and sandy silt, light-gray, very poorly sorted; many beds contain several percent of basaltic lapilli (sand-grit- and small-pebble-sized); somewhat indurated; lacustrine.

Sharp contact, possible minor disconformity.

Do.

Lapilli sand; very fine pebbly medium sand,
very poorly sorted, grayish-yellow-grown,
slightly indurated, indistrinctly bedded.

Probably colluvium (slope wash or talus). 5 3 88.7

[At next embayment of bluff to east this
unit is somewhat more indurated, yellower,
and shows slight lime concentration locally
at top.]

Gradational contact.

2.2

85.7

. 94.2

Do.

Lapilli sand; mostly coarse, fine-pebbly
sand and grit, some medium sand, especially
in upper 2 ft; generally well sorted;
practically all basaltic lapilli; pebbles
mostly less than 1/2 inch, rarely to 1 inch;
slightly indurated; contains occasional
water-worn fragments of dendritic and lithoid
tufa. Lacustrine.

6 5.5

Sharp conformable contact.

10 (continued)

Indian Lakes Silt, medium-grayish-grown, well sorted, fm., volcanic unindurated; thins rapidly to west, is sand of only 1/2 ft thick 10 ft to west.

dendritic Lacustrine. 7 1.3 95.5

Senco age.

Angular disconformity.

Indian Lakes Lapilli sand, moderately indurated,

fm., volcanic moderately well bedded, parallel bedded;

sand of early dips 20° to 30° to northwestward; strongly

Sehoo(?) age. jointed. Contains several percent of

basaltic lapilli in poorly sorted silty

medium to coarse sand, commonly with some

grit and small-pebble-sized lapilli and

rare cobble-sized basalt bombs. Lacustrine.

Base not exposed; thickens to several feet,

locally as much as 15 ft, exposed above

water, within 400 ft to west

8

1

96.5

10 a (L)

Center of SW1/4 sec. 8, T. 19 N., R. 28 E.; 4.090+ ft altitude. At or near W. of ridge about 500 ft E. of Soda Lake. Test well no. 76 in Clark and Lee (1916) report.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Indian Lakes fm.,	Volcanic ash, cinders, silt,		
volcanic sand complex	and sand.	91	91
of Soda Lake.			
Do.	Very hard clay; occasional seams		
	that carry water off very rapidly.	24	115
Do.	Soft silty clay.	3-5	118.5

10 b (L)

At Sl/4 cor. sec. 8, T. 19 N., R. 28 E.; 4,020 ft altitude. About 2,000 ft SE of Soda Lake. Test well no. 77 in Clark and Lee (1916) report.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Indian Lakes fm.,	Sand, clay, and cinders.	54	54
volcanic sand complex			
of Soda Lake.			
Do.	Soft clay.	5	59
Do.	Hard clay.	25	84

10 c (L)

NW1/4NE1/4 sec. 8, T. 19 N., R. 28 E.; 4,025 ± 10 ft altitude. About 0.3 mile E. of Soda Lake. Test well no. 78 in Clark and Lee (1916) report.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Indian Lakes fm.,	Volcanic ash, sand, and cinders.	7	7
volcanic sand complex			
of Soda Lake.		19	
Do.	Coarse cinders.	2.5	9.5
Do .	Gravelly adobe.	5.5	15
Do.	Layers of adobe and cinders, adobe		
	layers averaging about 3 ft and		
	cinder layers about 1 ft thick.	50	35
Probably Wyemaha fm.	Fine sand, interbedded with partly		
	cemented coarse sand.	15	50
Do.	Medium coarse sand.	13	63
?	Very fine soft allty clay.	12	75
?	Herd clay.	<u> 1</u> /ŧ	89
ę,	Very fine soft silty clay.	3	92

10 d

SE1/4NE1/4 sec. 9, T. 19 N., R. 28 E.; 3,990 * 5 ft altitude. 1 1/2 miles E. of Soda Lake. 1915 water test borehole, no. 80 in Clark and Lee (1916) report.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Sehoo fm.	Adobe.	5	5
Do.	Sand and silt.	26	31
Do.	Adobe.	3	34
Do., or Wyemsha fm.	Gravel about size of "EB" shot.	1	35

10 e

Near center sec. 8. T. 19 N., R. 30 E. 3,912 ± 5 ft altitude. 1904 water test borehole, no. 91 in Stabler (1904) report, dry to bottom in 1904.

Geologic wnit	Description	Thickness (feet)	Depth (feet)
Fallon fm.,	"Alkali hardpan".	L.	4
upper mbr.			
Fallon fu.	Sand.	5	9
De.	"Alkeli hardpan".	5.	1,1
Fallon fm.,	Dark clay (lake clay).	6	20
lower mbr.			
Turupah fm.	White sand (eolian sand).	5	25

10 f

SM1/4 sec. 7, T. 19 N., R. 31 E.; 3,895 ± 5 ft altitude. 1904 water test borehole, no. 54 in Stabler (1904) report; water at 7 and 16 ft below surface.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Fallon fm.	Clayey losm.	24	4
Turupah fm.(?)	Sand.	2	6
Sehoo fm.	Yellow clay.	19	25
Wyemaha fm.	Clay and saud.	6-	31

10 g

NW1/4SW1/4 sec. 9, T. 19 N., R. 31 E.; 3,895 ± 5 ft altitude. 1904 water test borehole, no. 52 in Stabler (1904) report; water level 11.5 ft below surface in 1904.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Fallon fm.	Loam.	7	7
Sehoo fm.	Yellow clay.	.5	15
Do., lower mbr.	"White salt" (volcanic ash).	0.3	12.3
Do.	Yellow clay.	2.7	15

10 gg

Stratigraphic section exposed in east bank of Stillwater Slough near corrals at Kent Ranch, about 100 ft south of bridge across slough. SW1/4 sec. 8, T. 19 N., R. 31 E. Top of section about 3,895 ft altitude.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Fallon fm.,	Silt, with some grains of coarse and medium		
young lake	sand; dark gray, carbonaceous; lacustrine.	0.5	0.5
interlake unit.			
Fallon fm.,	Medium sand, fairly well sorted; gray-tan in		
upper mbr.	top 1 in., tan-gray below; locally rust-stained;		
	lacustrine.	1.1	1.6
Lo.	Fine-sandy silt, with several inches of fine		
l'r	sand at base; ten-gray, locally rust-stained in		
	upper part; lacustrine.	0.9	2.5
alion fm.,	Silt (volcanic ash), light blue-gray, with		
lover mbr.	discontinuous black carbonaceous paper-thin		
	partings. Lecustrine.	0.1	2.6
Do.	Clayey silt in upper half, grading to silty clay		
	in lover half; very eark brown-gray; somewhat		
	carbonaceous; minute lime nodules. Lacustrine.	1.7	4.3
Do.	Volcanic ash zone. 1/4-in. light blue-gray silty	7	
	ash parting at top, then 1/4-in. dark gray-green		
	silty clay then 1 in. light blue-gray silty ash		
	with local black carbonaceous partings, then 1 in	1.	
	pinkish gray silty ash, with local black carbonac	eous	
	partings. Lacustrine or swamp deposit.	0.2	4.5

10 gg (continued)

mbr.

heo fm.,	Clay, pale olive gray; black more or less vertical		
upper mbr.?	carbonaceous stains, gradually decreasing in		
	density downward, suggest former roots; gastropod		
	shells in lover several inches. Lacustrine.	1.3	5.8
	Disconformity?		
Sehoo fm.,	Clay, clive tan-gray, somewhat carbonaceous;		
dendritic	gastropods in upper part; 3/8-in. volcanic ash		
mbr.?	(silt), light gray, at base. Lacustrine.	1.4	7.2
Do.	Clay, variegated, as follows, from top: 1.3 ft		
	olive-tan-gray clay; 0.25 ft pale gray-green		
	clay with tan laminae; 0.3 ft pale tan-green		
	clay, slightly silty and sandy and salty;		
	0.4 ft medium greenish gray clay.	2.1	9.3
	· ·		
sehoo fm.,	Limestone, 1/2-in., at top; over clay, olive		
<u>dendritic</u>	tan-gray, somewhat sandy. Base not exposed.	0.9	10.2
and/or lover			

10 h (L)

S1/2 sec. 9, T. 19 N., R. 31 E. Nearly level flat NW of Stillwater Point reservoir, 3,905 ± 7 ft altitude. Driller's log of validation well drilled in 1914 by L. W. Crehore for Nevada Standard Oil Company.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Fallon fm., and (mainly) Sehoo fm.	Yellow clay.	12	12
Sehoo fm., lower mbr.	White "send" (white esh)	0.5	12.5
Wyemaha im.	Blue clay.	2	14.5
Do.	Black sand.	4	18.5
Do.	Blue clay.	20	38.5
Do.	Black sand.	22	60.5
Do.	Black clay.	10	70.5
Do,	Blue clay.	20.5	91 (bottom)

NEI/4NVI/4 sec. 15, T. 19 N., R. 30 E. Stratigraphic section exposed in west bank of Upper Paiute drainage canal, and auger hole to 13 ft below water level in canal. Top of section about 3,905 ft altitude.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Fallon fm.,	Fine sand, compact, non-limy, gray-tan;		
upper mbr.	lacustrine.	0.3	0.3
Do.	Fine sand, some admixed medium and coarse sand;		
	medium sand parting; top 1 to 2 in. limy,		
	remainder non-limy; gray-tan; 1/2-in. clayey		
	silt (ash?) parting at base. Lacustrine.	0.5	0.8
Fallon fm.	Silty very fine to fine sand; grades to fine sand	1	
	near base; upper part limy. Lacustrine.	2.0	2.8
	Disconformity?		
Fallon fm.,	Silty clay, apparently brecciated; non-limy;		
lower mbr.	tan-gray; uniform thickness; lacustrine.	1.2	4.0
	Undulating contact, possible disconformity.		
Do.	Silty clay, dark gray to black, limy; lacustrine	. 0.25	4.25
	Undulating contact, possible disconformity.		
Do.	Medium sand, a little coarse sod, slightly limy;	,	
	dark gray-ten; lacustrine.	0.55	4.6
	Possible disconformity.		
Do.	Silty clay, medium tan-gray; lacustrine.	0.5	5.1
(?)	Silty clay, dark brown-gray; lacustrine.	0.5	5.6

i (continued)

Disconformity.

Sehoo fm.	Clay, grading to somewhat silty clay in lower		
	part, deep olive-tan-gray mottled with dark gray		
	to black (Mm oxide?). Lacustrine.	5.2	10.8
Do.	Clay, slightly silty, olive tan-gray, locally		
	bright clive-tan, a little dark gray mottling;		
	abundant tiny lime nodules (mostly less than		
	2 mm diam.). Lacustrine.	1.2	12.0
Do.	Clay, slightly silty, about 50 percent olive		
	tan-gray and 50 percent black mottling; a few		
	tiny lime nodules, otherwise non-limy.		
_	Lacustrine.	2.8	14.8
.	Clay, mostly light olive gray, some black veining		
	and mottling, moderately abundant to sparse tiny l	Lime	
	nodules(1-3 mm); little silt or send. Lacustrine.	6.2	21.0
Do.	Silty clay and clay, black, with some olive gray		
	mottling. Lecustrine.	17	22,7
Do.	Clay, mostly clive ten-gray, some black mottling.	1.0	23.7
Do., or	Silty clay, silty fine sand, some fine sand,		
Wyemaha fm.	pale olive gray. Aquifer, somewhat artesian.		
	Lacustrine.	1.0	24.7
Do.	Clay, bright olive gray.	0.2	24.9

NW1/4NW1/4 sec. 13, T. 19 N., R. 29 E.; 3,915 ± 5 ft altitude. 1904 water test borehole, no. 98 in Stabler (1904) report; dry to bottom in 1904.

10 j

Geologic unit	Description		Thickness (feet)	Depth (feet)
Fallon fin.	Sand.		1.5	1.5
Do., or Turupah Im., bearing	"Alkali hardpan".		2	3.5
Toyeh soil.	*			
Turupah fm. and Sehoo fm., upper mb~.	Sand.	•	7.5	11
Senoo fm.	Yellow clay.		14	25

SW1/4 sec. 16, T. 19 N., R. 29 E. Stratigraphic section exposed in scarp at SE edge of Carson River floodplain; top of section 3,950 \pm 4 ft altitude.

Geologic unit	Description	Unit	Thickness (feet)	Depth (feet)
CALLE O	ECOCE ED DECEA	1.0.	(1000)	(1000)
Sehoo fm.,	Fine and medium sand, much coarse sand and			
upper mbr.,	grit and rare small pebbles; most pebbles			
bearing	and granules are dark gray to black tufa			
Toyeh soil.	(late lithoid tufa of this mbr.); poorly			
	sorted, indistinct parallel-bedded; locusts	rina.		
	Bears Toyeh soil and is semi-indurated by :	it;		
	soil horizons as follows: at top, 0.3+ ft			
	vesiculer horizon, sandy silt, light gray,			
	with vesicular structure, faint horizontal			
	lamination; sharp boundary, 0.3 to 0.6 ft			
	oxide horizon, like parent material except			
	medium yellow-brown, lime nearly absent at			
	top, increases downward; gradual boundary;			
	0.5 to 1.0 ft calcereous horizon, light ph	nkish		
	gray or light yellow-gray, moderate lime			
	concentration, slight cementation, local			
	white streaks and blotches of lime;			
	irregular gradual boundary.	1	1.80	1.8+

12 (continued)

lower mbr.

Sehoo fm.,	Medium and fine sand, well sorted, loose			
upper mbr.	(uncemented); very feldspathic, with			
	mineral-rock type characteristic of Carson	a		
	River; no tufa fragments or nodules; some			
	partings of dark red to black basaltic sa	nđ.		
	and grit, suggesting derivation from near	by		
	volcanic eruptions (Soda Lake?).	2	1.5 <u>+</u>	3.32
	Disconformity.			
Sehoo fm.,	Fine sand and fine-medium sand, olive yel	low,		
dendritic	mostly ostracod shells; some partings of		•	
mbr.	olive-green clay. Lacustrine.	5	1.5+	4.8+
o., and/or	Silty clay, olive-green; lacustrine.	6	34	7.8*
lover mbr.				
Sehoo fm.,	Silty clay, drab olive gray; lacustrine.	7	24	9.8+

NEI/4NEI/4 sec. 17, T. 19 N., R. 29 E. Stratigraphic section exposed in river bank at western edge of Carson River floodplain, 3,945 \(\frac{1}{2}\) 5 ft altitude.

Geologi c unit	Uni Description no.	t Thickness (feet)	Depth (feet)
Turupah fm.,	Medium sand, light gray. Two parts, with		
bearing	undulating disconformity between; upper part		
Toyeh soil.	0.5 to 3 ft thick; indistinctly bedded; lower		
	part 3 to 0.5 ft thick, crossbedded with some		
	coarse sand and grit, many tufa fragments.		
	Eolian. Bears Toyeh soil; top several inches		
	(oxide horizon) almost unindurated; below to		
	14 to 16 in. depth, weakly cemented by lime		
	(calcareous horizon).	3 <u>+</u>	3 <u>+</u>
	Pronounced disconformity, slightly undulating,		
	crosscuts bedding in underlying unit.		
hoo fm.,	Clayey silt, pale gray. Several ostracod-rich		
lover mbr.	sand partings in upper part; 3 in. above base		
	is persistent 1/4 in. parting of silty		
	lacustrine limestone; abundant worm-boring		
	tubules below the limestone parting.		
	Lacustrine. 2	1.45	4.4
	Flat, conformable contact.		
Wyemaha fm.	Mostly fine sand and silty fine sand, some		
	silt partings and thin beds of coarse-medium		
	sand. Strongly ripple-marked and layers		
	locally broken as if by wave action in shallow		
	water. Abundant worm tubules. Lacustrine. 3		6.64
	Disconformity.		

13 (continued)

Fyemaha fm.	Medium sand, well sorted, light gray;			
4	horizontally, parallel-bedded; 2-to 3-in.			
	silt layer at base. Lenticular and			
	locally absent. Lacustrine.	4	0-1	7.64
	Disconformity.			
Do.	Medium sand, some fine sand and coarse san	d,		
	well sorted, light gray, strongly crossbed	ded		
	(beds dip northward). Probably eolian.	5	74	8.64
Do.	Medium sand, light gray, well sorted; flat	,		
	perallel-bedded. Probably eolian.	6	1.54	10 <u>÷</u>
Do.	Medium sand, well sorted, strongly			
	crossbedded (beds dip northward). Eolian.	7	1.5 <u>÷</u>	11.54
•	Medium sand, well sorted; flat, parallel-b	edded.		

Eolian or lacustrine. (Rase not exposed). 8 34 . 14.5

14 (L)

NW1/45W1/4 sec. 17, T. 19 N., R. 29 E. Carson River floodplain. 3,950 tft altitude. Driller's log of water well; owner, Warren Whitehead; driller, J. B. Reynolds; well completed March 9, 1949.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Fallon fm.	Soil and silt.	3	3
Do.	Sand.	11	14
Sehoo in.	Clay.	14	28
Wyemaho fm.	Sand, hard water.	5	33
Do.	Blue clay.	8	41
Po.	Blue sand and water; foul-smelling.	41	82
Do.	Gray clay, tough.	5	87
Do.	Clean brown sand.	6	93

14 a

NEI/4NWI/4 sec. 13, T. 19 N., R. 28 E; 3,955 ± 5 ft altitude. 1904 water test borehole, no. 103 in Stabler (1904) report; dry to bottom in 1904.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Wyemaha fm.	"Alkali hardpan".	2	2
Do.	Sand and silt.	6	8
Do.	Coarse sand.	6	14

14 b

SEL/4NW1/4 sec. 15, T. 19 N., R. 28 E.; 3,995 ± 5 ft altitude. 2 1/3 miles SE of Soda Lake. 1915 water test borehole, no. 85 in Clark and Lee (1916) report.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Sehoo fr.	Sand and some silt.	37	37
Do.	Adobs.	14	41
Wyenaha fm.(?)	Fairly coarse sharp sand.	3	L.L.

14 c (L)

SE1/4NW1/4 sec. 18, T. 19 N., R. 28 E.; 4,005 + ft altitude. 1/4 mile SW of Little Soda Lake. Test well no. 96 in Clark and Lee (1916) report.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Indian Lakes fm.,	Medium fine sand, volcanic ash, and		
volcenic sand comp	ler fine cinders.	6.5	6.5
of Soda Lake.			
Sehoo fm.	Sandy adobe.	7.5	14
Do.	Fine sand, some (a little) adobe		
	or very fine silt.	20	34
Do.	Sandy adobe.	5	39
Do.(?)	Fine sand with a little Edobe.	6	45
Do.(?)	Sandy adobe	14	49
Wyenaha fin.	Fine sharp sand.	9	妈

14 d (L)

SW1/4NE1/4 sec. 15, T. 19 N., R. 27 E.; 4,030 ± ft altitude. Driller's log of water well; owner, Alfred Jones; driller, C. J. Brackney; well completed 10/19/47.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Fallon fm. and/or Turupah fm.	"Blov" sand.	(top) 4.5	4.5
Sehoo fm., dendritic mbr.	Sand and gravel.	13	17.5
cerations and.			
Do.	Fine sand (damp).	3.5	21
Do.	"Cube" clay.	3.5	24.5
Do.(?)	Yellow clay.	12.5	37
Indian Lakes fm.,	Coarse sand and gravel.	4	41
middle mbr.(?)			
Sehoo fm.,	Smoke-colored clay.	ı	42
lower mbr.(?)			

14 e

NW1/4NW1/4 sec. 15, T. 19 N., R. 27 E., on floor of small depression, 3,990 ± 5 ft altitude. 1904-1915 water test borehole, no. 136 in Stabler (1904) report; no. 138 in Clark and Lee (1916) report; water level 18 ft below surface in 1904; 9.4 ft in 1915.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Sehoo fm., (top part may be younger).	Silt.	2	2
Sehoo fm.	Clay and silt.	2	Ц
Do.	Clay.	6	10
Do.	Clay and gravel.	2 -	12
emoha fm.	Sand.	7	19

14 f (L)

NE1/4 sec. 21, T. 19 N., R. 27 E. Terrace above Carson River floodplain.
4,020 * ft altitude. Driller's log of water well; owner, Ed. Harriman; driller,
Shuey Drilling Co.; well completed 10/2/50.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Fallon fm.	Top soil, pit dug by hand.	(top) 5	5
	(Carson River alluvium).		
Sehoo fm.	Clay and sandy clay.	33	38
Wyenshe fm.	Sand and gravel; water.	21	59

25 (L)

NWIL/4NWIL/4 sec. 24, T. 19 N., R. 27 E. Terrace of Carson River, altitude 4,012 ± 3 ft. Driller's log of well on Ken Ogden ranch, drilled in 1944.

Geologic unit	Description		Thickness (řeet)	Depth (feet)
	et terrene et terrene terrene terrene et terrene et de		(top)	
Indian Lakes fm.	Sand, water-bearing in lower	4 ft.	18	18
Sehoo fm., dendrit	ie			
and lower mers.	Clay.		14	32
Indian Lakes fm.,				
middle mbr.(?)	Sand.		5	37
Sehoo fm., lover mb	r. Clay.		5	42
Wyemelia Im.	Sand.	*.	12	54
Do.	Clay.		14	58
Do.	Sandy gravel.	7	7	65
) .	Sandy pea gravel.	1.0	5	70
Do.	Black sand.		12	82
Do.	Clay.		<u>L</u> į	86
Do.	Sand and gravel.		7	93
Do.	Clay.		1	94
Do.	Sond and gravel.		6	100
Do.	Sand and clay, interbedded		8	108

15 a (L)

SE1/4NE1/4 sec. 22, T. 19 N., R. 28 E. Carson River floodplain, L. E. Gurmow ranch, $3,975 \pm 10$ ft altitude. Driller's log of test well for oil and gas drilled about 1921 for Fallon Extension Oil & Gas Co.

Geologi c unit	Description	Thickness (feet)	Depth (feet)
		(top)	
Fallon and Wyemaha fms.	Sand.	60	60
Wyenaha fm.	Elue clay.	9	69
Do.	Sand.	3	72
Do.	Hard streek.	1	73
Do.	Coarse sand	32	105
Correlation uncertain.	Gray and brown clay.	15	120
Do.	Clay and streaks of sand.	138	258
p.	Cemented gravel.	20	278
Do.	"Metamorphosed rock".	5	283
Do.	Black conglomerate.	1	284
Do.	Hard rock.	2	286
Do.	Conglomerate.	119	405
Do.	Sandatone.	14	409
Do.	Yellow clay.	3	412
Do.	"Blue strata".	71	483
Do.	Sandstone.	7	490
Do.	Shale.	140	630
Do.	Fine sand.	5	635
Do.	Sandstone.	7	642
Do.	Soft sandstone and sand.	118	760
b	Shale.	24	784

a (L) (continued)

Correlation uncertain.	Lime and fine green sand.	6	790
Do.	Hard sand.	35	825
Do.	Blue shale.	46	871
Do.	Sandstone.	3	874
Do.	Blue shale; hard streak at base.	124	998
Do.	Gray shale.	13	1011
Lo.	Sandstone.	24	1035
Do.	Blue and green shale.	15	1050
Probably either basalt	Hard vesicular basalt breccia,		
of Rattlesnake Hill	cemented by greenish CaCO3.	26	1076
or Bunejug fm.			

D. F. Hewett visited the well in 1922 and described cuttings as "largely thin-bedded shaly material, probably fine water-laid tuff" to 1,050 ft, where a flow of vesicular basalt was encountered and cored to 1,076 ft. The Oil and Gas Journal of Nov. 20, 1921, reported this well drilling at 1,155 ft in "black and white limestone".

15 b (L)

SW1/4NE1/4 sec. 24, T. 19 N., R. 28 E. Rice rarch, on Carson River floodplain; 3,965 ± 8 ft altitude. Driller's log of water well drilled in 1934, for city of Fallon (owner) under supervision of L. W. Crehore, city engineer.

Geologic unit	Description	Thickness (feet)	Depth (feet)
the address to the part of the second of the		(top)	
Fallon In.	Surface soil.	5	5
Wyemaha fm.	Soft clay.	11	16
Do.	Sand.	3	19
Do.	Soft clay.	16	35
Do.	Hard clay.	3	38
Do.	Soft clay.	2	40
Dc.	Sund	5	45
Do.	Sandy clay.	35	80
Do.	Hard sandy clay.	2	82
Do.	Sand.	16	98
Do.	Sandy clay.	9	107
Do.	Black silt.	17	124
7 0.	Fine sand.	1.	128
Correlation uncertain.	Soft clay.	17	145
Do.	Sandy clay.	5	150
Dc.	Sand, very fine.	10	160
Do.	Clay.	14	164
Do.	Sand.	1	165
Do.	Clay.	15	180
Do.	Senā with streaks of clay.	16	196
Do.	Sand.	2	198
Do.	Sandy clay.	10	208
Do.	Fine sand.	13	221
Do.	Yellow clay.	17	238
Do.	Fine gravel.	4	242
Do.	Green clay.	15	257
Do.	Sand.	13	270
Do.	Sand, water-bearing.	17	287
Do.	Clay.	1	288
Do.	Sand and gravel, water-bearing.	45	333
Do.	Clay.	54	387
	7.67		201

15 c

SE1/4NW1/4 sec. 22, T. 19 N., R. 29 E. Stratigraphic section exposed on western side of small island in NE part of S-Line Reservoir. Top of section about 3,955 ft altitude.

Geologic unit	Description	Unit no.	Thickness (feet)	Depth (feet)
Fallon fm.	Fine-medium to coarse sand, pale gray,			
	incoherent. Locally crossbedded. Eolian.			
	No discernible soil development.	1	3 <u>+</u>	3+
Turupah fm.,	Fine-medium and medium sand, commonly with			
bearing	abundant granules and some platy fragments			
Toyeh soil	of late lithoid tufa of upper mbr. of Seho	0		
(eroded).	fm., as much as $3/4$ in. diam. and $1/8$ in.			
	thick. Rare coprolites (coyote?), contain	ing		
	rodent bones. Moderately well bedded, bed	S		
	dip northward 15°- 25°. Top 0 to 1.2 ft			
	moderately lime-cemented by Cca horizon of			
	Toyeh soil; soil is partly to locally			
	completely eroded; remainer of unit only			
	locally slightly lime-cemented. Eolian.	2	10+	13 <u>+</u>
×in =	Sharp contact; disconformity representing			
	subserial erosion.			
Sehoo fm.	Clay, light greenish gray; lacustrine.			
	Exposed by pit, base not reached.	3	2	15 <u>+</u>

NEI/4SEI/4 sec. 22, T. 19 N., R. 29 E. Stratigraphic section exposed by rench and pits into wash-bank scarp on E. side of small valley, one-half mile E. of S-Line Reservoir; top of section 3,955 ft altitude.

Geologic unit	Description	Unit no.	Thickness (feet)	Depth (feet)
Fallon fm.	Sand, medium and coarse, pale tan-gray; loc	se		
	and uncemented; 15 percent dark gray fragme	ents		
	of late lithoid tufa of upper mbr., Sehoo f	m.,		
	including thin tabular ones 1/2 to 3/4 in.			
	wide; indistinctly stratified. Eolian.	1.	3	3
	Sharp contact; disconformity.			

bearing Toyeh soil.

Turupah fm., Medium and coarse sand, somewhat silty, poorly sorted, indistinctly bedded; some tufa fragments. Eolian. Top 1.1+ ft bears Toyeh soil, which locally is somewhat eroded, vesicular horizon absent: top 2 to 5 in. of soil are oxide borizon, medium gray-brown, a little semiflocculated clayey silt, little or no lime, moderate columner structure, hard consistence; gradual boundary; pensining 10+ in. are calcareous horizon, pinkish gray, moderately calcareous, moderately cemented, hard consistence, with numerous white powdery CaCO2 concentrations, slightly columnar to granular structure; gradual lover boundary. Material below soil is pinkish gray, very weakly indurated.

2 1.5-2.2 5.00

Discomformity.

16 (continued)

(boo fm.,	Grit and coarse sand, pinkish gray, very			
	upper mbr.	well-sorted arkosic, some small pebbles to			
		rarely 1/2 in. diam., typical Carson River			
		assemblage, also many thin platy fragments of	dark		
		purplish-red tufa. Top 3 to 4 in. ere somewha	t		
		cemented by CaCO3 and slightly darker, lower			
		part is uncemented. Lacustrine (deltaic).	3	2.2	7.2 <u>+</u>
	Do.	Fine sand and silty fine sand, light			
		brownish-yellow; lacustrine.	4	0-0.3	7.4+
	Disconformity representing	Sharp undulating contact; disconformity			
	upper mor. of Indian Lekes fm.	representing subscrial erosion.			
	Sehoo fm.,	Silty clay and clay, medium gray with faint			
(Ower mbr.	greenish cast; tough, moderately indurated,			
		faintly laminated; well (prismatically)			
		jointed; some ostracods. Lacustrine.	5	2-2.5	9.6+
		Sharp even contact.			
	Wyemsha fm.	Medium sand, well-sorted, uncomented, bright			
		orange-yellow; ripple-bedded; lacustrine.	6	1.3	10.9+
	Do.	Very coarse, clean sand, pale gray;			
		lacustrine.	7	0.1-0.3	11.1 <u>+</u>
	Do.	Fine-medium sand, clean, pale			
		yellow-brown-gray; lacustrine.	8	0.3	11.44
	Do.	Silt or silty clay, medium brown-gray;			
		lacustrine.	9	0.05	11.44

16 (continued)

emaha fm.	Fine-medium sand, clean, pale brown-gray;			
	irregular parting of silt at base. Lacustrine.	10	0.15	11.6+
Do.	Fine-medium sand, clean, pale brown-gray;			
	lacustrine.	11	0.3	11.9+
Do.	Silt and clayey silt, medium yellow-brown-gray	7		
	lacustrine.	12	0.3	12.2+
Do.	Medium and fine-medium sand, clean, pale			
	brown-gray; lacustrine.	13	1.2	13.4+
Do.	Alternating silt, clayey silt, silty clay and			
	fine sand; 1 in. of clay at base; medium			
	yellow-brown gray; lecustrine.	14	0.7	14.1+
Do.	Medium sand, clean, medium yellow-brown; 1/2 i	n.		
	of fine sand, light gray, at base, lacustrine.	15	0.8	14.94
Do.	Coerse-medium send, very well sorted, pale			
	gray; lacustrine.	16	1.3	16.2+
Do.	1/2 to 1 in. fine sand at top, remainder			
	coarse medium sand, medium sand; light			
	yellow-brown. Lacustrine. (Base not			
	exposed).	17	1.5+	17.7+

16 (S)

Soil profile section at type locality of the Toyeh soil. Location:

(SEL/Apel/4) sec. 22, T. 19 N., R. 29 E. Topographic position: Near top of steep
E. bank of wash. Slope: 10 percent. Erosion: Slight. Exposure: Vertical
channel dug in bank. Altitude: (0 datum for soil profile description) 3,9504
5 ft. Parent material: Eolien sand of Turupah fm. Overlying material: Eolian
sand of Fallon fm. Vegetation: Shadscale.

	Thickness (inches)		Description
6-0	6	go tu	Yellow-gray coerse colien send; structure, single grain; consistence, losse.
0-3	3	A1/	Abrupt, wavy boundary. Light grey (7.5 YR 7/2) sendy loam; structure, nearly vesicular; consistence, hard, brittle.
3-7).	B <u>T</u> /	Abrupt, smooth boundary. Brown (7.5 VR 5/2) sendy loan; structure, moderately strong to moderate columnar; consistence, hard.
7-11	15	Gca	Clear, smooth boundary. Pinkish gray (7.5 YR 6/2) sandy loam; structure, slightly columnar to granular; consistence, hard, brittle, compact.
11-15	4	C40	Pinkish gray (7.5 MP 6/2) lossy send; circulture, week
15-22	*7	С	columnar to granular; consistence, weakly compacted. Pinkish gray (10 YR 6/2) sand; structure, nearly structureless (nearly single-grain); consistence, loose.
55-70	18	D	Pinkish gray (10 YR 6/2) sand; structure, single grain; consistence, loose.

^{1/}At this locality the B (oxide) horizon has been somewhat eroied, for its thickness ranges from G to 5 inches within a few feet; consequently, the A (vesicular) horizon in this profile probably is of post-Toyeh age (this also is suggested by the abnormally weak development of vesicular structure for this soil, compare soil profile section 3-18-31-17-2).

Soil profile 16 S, analyses of physical and chemical properties.

(Sampling and analyses by M. E. Springer, Division of Soils, University of California, Berkeley, Calif.)

Soil Herizon	Depth inches	Apperent density	Percent	рH	Percent N (vbcle soil)	CO ₂ from carbonates (whole soil)
6	0 - 3	1.57	91: 4	9.9	0.009	5.2
3 & Cca	! - 11	1.38	95.5	10.0	0.008	2.9
lea	11 - 15	1.52	98.6	10.1	0.004	1.6
3	15 - 22	1.51	96.9	10.1	0.003	1.1
D	55 - 70	1.47	92.4	9.9	0.001	0.9

Stratigraphic section at type locality of upper member of the Indian Lakes fm. and Harmon School scil; 2/3 mile N. of old Harmon School, SW1/4NW1/4 sec. 24, T. 19 N., R. 29 E. Exposed in banks of branch irrigation canal about 150 ft E. of county road bridge across main irrigation canal. Top of section about 3,932 ± 4 ft altitude. See also soil profile section S-19-29-24-3, at this locality.

Geologic vnit	Description	Thickness (feet)	Depth (feet)
Sehoo fm.,	Silt and fine sand, thinly intertedded; lacustring	е.	
upper mbr.,	Upper 3.5 in. light gray with vesicular structure		
bearing	(vesicular horizon of Toyeh soil); remainder is		
Toyen soil.	light brown, with weakly columnar to granular		
	structure, slightly to moderately calcareous (B		
	and upper part of Cca horizons of Toyeh soil).	77	1.4
	Irregular contact.		
Do.	Lithoid tufa, white to pale gray (early lithoid		
	tura of this mbr.), nearly continuous layer of		
	irregular to manuflary masses commonly 1 to	~	
	2 ft diam. and 0.2 to 0.8 ft thick.	0.5	1.54
	Disconformity; fairly sharp contact.		
Indian Lakes	Colluvium, composed of fragments of the underlying	3	
y upper	clay. Top 0.2 in. light brown (exide horizon of		
idr., bearing	Harmon School soil); remainder is light qlive		
Harmon Sebool	gray, has very weak lime concentration in upper	-	
soil.	0.7 ft (Cca horizon of same soil).	3 <u>∻</u>	4.55
	Disconformity.		
Senco fm.,	Silty clay and clayey silt, light olive gray;		
iendritie	strong columnar jointing, joints closer spaced		
ner.	in top 14 ft; lacustrine; base not exposed.	1.5	6.0

17 (S)

Soil-profile section at type locality of Harmon School soil. Location: 2/3 mi. N. of old Harmon schoolhouse; exposed in banks of branch irrigation canal about 150 ft E. of county road bridge across main irrigation canal, SWI/4NWI/4 sec. 24, T. 19 N., R. 29 E. Topographic position: Plain. Slope: None. Erosion: None. Exposure: Vertical channel dug into canal bank. Altitude: 3,932 i ft. Parent meterial: Colluvium of upper member of Indian Lokes formation, derived from clay of Schoo formation. Overlying material: Harmon School soil is buried beneath about 11 in. of silt, fine sand, and basal tufa of upper member of Schoo formation, in which the stronger Toyeh soil has developed. The Cca horizon of the Toyeh soil extends down into, and somewhat modifies the Harmon School soil. Precipitation: Five inches per year. Natural cover: Sarcobatus vermiculatus, some shadecale. (Atriplex confertifolia). Past and present use: none.

Depth (inches)	Thickness (inches)	Soil herizo	n Description	Geologic unit
0-3.5	3-5	A	Light gray clay loam: Structure:	Toyeh soil
			vesicular, grading to granular in lover	(vesicular
			part; Consistence: harsh to floury.	horizon).
			Abrupt boundary.	
3.5-8	4.5	Ba	Light brown loam; Structure: weakly	Toyen soil on
			columnar to granular; Consistence:	silt and fine
			'mrā (dry), brittle.	sand of upper mb:
				of Sehoo Im.
			Gradual boundary.	
8-11	3	E3-Cca	Light brown loam; Structure: weakly	Toyeh soil on
			columnar; contains abundant hard tufa	silt and early
			masses and some soft lime concretions;	lithoid tufa of
			Consistence: hard (dry), brittle.	upper mbr. of
-				Sehoo fm.: silt
				probably wave-
			Clear boundary.	reworked from
				B horizon of Harmon School

scil.

17 (S) (continued)

Depth (inches)	Thickness (inches)	Soil borizon	Description	Geologic unit
11-12+	1.*	B(Harmon School	Light brown clay loam; Structure: weakly columnar to granular: contains some white lime coatings and concentrations; Consistence: hard, (dry), brittle. Locally absent (ereded).	soil, developed in colluvium of upper mbr. of Indian Lakes fm.
			Clear boundary.	Cea horizon of Toyeh soil is superposed.
15-50 <u>⊀</u>	8 <u>*</u>	Coa (both soils).	Yellow gray clay loam; Structure: coarse granular; Consistence: moderately hard. Weak to very weak lime coatings and	Cca horizon of Harmon School soil and super- posed Cca horizon
			concentrations.	(lower part) of Toyeh soil, on colluvium of upper mbr. of Indian
			Diffuse boundary.	Lakes fm.

Fote: Total thickness of colluvium of upper member of Indian Lakes formation is about 32 inches. It rests on clay of the Sehoo formation, which was the source material for the colluvium.

17 a (L)

SE1/4NW1/4 sec. 23, T. 19 H., R. 30 E.; 3,910 & ft altitude. Driller's log of water well; owner, George Delton; driller, George Horoutt; well completed September 22, 1947.

Geologic writ	Description	gill film hat i stiga et a. 4 - dest et justimisenten ett för at tatt tig och blanke, til destaktet i I stig stig och til stig och til I stig och til stig	Thierness (feet)	Depth (feet)
Fallon and	Tellow clay.		50	50
Seloo Ims.				
Wrenehe fm.	Quicksand (aquifer).		5	55
, or I	Elmoi sludge.		6	61
Do.	Quicksand.	¥.	5	66
Do.	Black mud.		4.5	70.5
) 1.4.	Fine sand.	*	14.5	35
Do ?	Clay.		5	90

17 b

NWI/ANEL/A sec. 20, T. 19 N., R. 31 E.; 3,898 \pm 5 ft altitude. 1904 water test borehole, no. 51 in Stabler (1904) report; dry in 1904.

Geologie wat	Description	Thickness (feet)	Depth (feet)
Fallon fm.	"Self-rising ground".	0.5	0.5
Do.	Losm.	. 7.5	8.0
Seboo fm.	Tellow clay.	9	17.0
Do.	"White salt" (volcanic ash).	0.2	17.2
Dc.	Yellow clay.	11	28.2

1,900 ft due E. from NV cor. sec. 25, T. 19 N., R. 30 E. Strabigraphic section exposed in drainage canal bank (8-ft exposure), and 23-ft auger hole in Stillwater Slough floodplain. Top of section 3,910 ft altitude.

Geologie unit	Description	Umit so.	Thickness (feet)	Depth (feet)
Fullon fm.	Silo and silty clay, nearly black	The state of the s		
	(carbonaceous), saline, commonly someth	£ic.		
	sendy in upper 2 ft, grading to silty			
	clay in lower foot. Upper part mainly			
	elluvial, lover part, lacustrine.	-	3	3
Do.	White volcanic ash (silt), soft,			
	uncemented. Lacustrine.	2	0.1	3.1
Fellon fm.	Silvy clay, dark gray, mearly black,			
lover mbr.	cerboucceous; lacurities.	3	3.1	6.2
	Disconfigurity representing subserial			
	exbours.			
Boboo fa.,	Clay, light graphel olive-grass, except			
ž půmaním mír.	ngram li dh ia mathlat dhe she wish bit	1		
	Wie is grabitly for the ferrom givent rec	in it		
	Isaasuine.	c.ţ	1,2	8.0
Do.	Pale greenish, nearly while silk			
	(volumnia ash?); lecustrine.	5	0.05	8.05
Selec fm.,	Clay, light green to greatheb-grey;			
dominitie and/or	leoustrine.	ϵ	8.95	17.0
lower mbr				

17 c (continuei)

Silty clay, gray (with slightly green)	ish		
cast) to ten-gray, notitled with runty	spots.		
Rusty-brown sand parting 1 ft from bot	ttom.		
Lacustrine.	7	5.5	22.5
Silty clay, greenish gray, with rusty			
olive gray partings; a few sand and			
sandy clay partings; lacustrine.	8	1.5	24.0
White volcanic ash; lacustrine.	9	0.1	24.1
Silty clay similar to unit 8.	10	0.9	25.0
Pure ostracoa sana (coguina);			
lacustrine.	11	0.9	25.9
Silty clay, derker greenish gray than			
unit 10, with rusty ten lamines, some			
serdy clay partings. Lecustrins.			
Fase not reached.	12	5.14	31
	Rusty-brown sand parting 1 ft from both Lacustrine. Silty clay, greenish gray, with rusty olive gray partings; a few sand and sandy clay partings; lacustrine. White volcanic ask; lacustrine. Silty clay similar to unit 8. Fure estraced sand (coquina); lacustrine. Silty clay, darker greenish gray than unit 10, with rusty tan laminae, some sandy clay partings. Lacustrine.	Silty clay, greenish gray, with rusty olive gray partings; a few sand and sandy clay partings; lacustrine. White volcanic ash; lacustrine. 9 Silty clay similar to unit 8. 10 Pure ostracod sand (coguina); lacustrine. 11 Silty clay, darker greenish gray than unit 10, with rusty tan laminae, some sandy clay partings. Lacustrine.	cast) to ten-gray, mottled with rusty spots. Rusty-brown sand parting 1 ft from bottom. Lacustrine. 7 5.5 Silty clay, greenish gray, with rusty clive gray partings; a few sand and sandy clay partings; lacustrine. 8 1.5 White volcanic asa; lacustrine. 9 0.1 Silty clay similar to unit 8. 10 0.9 Pure estraced sand (coquina); lacustrine. 11 0.9 Silty clay, derher greenish gray than unit 10, with rusty ten lamines, some sandy clay partings. Lacustrine.

HEL/4SEL/4 sec. 25, T. 19 N., R. 29 E. Stratigraphic section exposed in bank of drainage canal, and 6-ft auger bole, in delta of second Fallon lake.

Top of section 3,931 ft altitude.

Geologic unit	Description	Unit no.	Thickness (feet)	Depth (feet)
Fallon fm.,	Coarse and medium sand, somewhat pebbly,			
second lake	especially in basal 1/2 ft (pebbles to 1/3			+
unit, bearing	in. diam.); well sorted, except top 0.5 +			
"I" Drein	ft, which is silty; top 1.2 ± ft slightly			
soil.	indurated by "I" Drain soil. Upper port			
	lacustrine, lover part is distributed.			
3.	(deltaic) allumium.	1	4.1-	4.14
	Sharp contact, disconformity.			
Fallon fm.,	Silt, vell-sertet, light brown-grey; seme			
irst lake	sand-filled designation cracks, rusty spots			
unit.	and apove of weak Cally concentration.			
	Lacustrine.	pris.	1.5	5.6+
De.	Medium send grading to fine-medium send in			
	lower part, vell cortes, light willow brown	-5:05.		
	Lecuringiae.	3	2.5	7.54
Turupah in.	Coarse and medium sand with grit and very			
	small pebbles (typical Carson River essembl	age);		
	indistinctly bedded. Alluvium (Carson Rive	2~		
	channel sand). Base not reached.	2,	7	14.54

hEl/4NML/4 sec. 25, T. 19 N., R. 29 E. Stratigraphic section exposed in S. bank of drainega canal, 300 ft due E. of stratigraphic section 18 b, within Sagouspe fault zone (buried); 10.5-ft auger hole below water level in canal. Top of section about 3,926 ft altitude.

G-cloude	Description	Thickness (fest)	Depth (fest)
Folion fm.,	Coarse and medium sand, poorly sorted, in top 12		
lover mbr.	for medium and fine sand, moderately well corted,		
	in lover part; light ton-gray. Lecustrine.	2.0:	2.04
	Dissection stay (1 to 3 its local value).		
Sehoo in.	Sendy allt; grades comewhat sandler downward;		
upper mbr.	mottled medium brown-gray and white; much		
possibly	soil-lime concentration (possible Ces horizon		
Jearing	of Toyah soil). Lecustrine.	0.84	5.83
rejek solit	·		
(eroded).			
Sehoo Mar,	Coerse a A melium send, fairly well sorted.		
wyer mor.	gray tau upper 0.5 % sonstlet post-stained;		
	a few which will fangerous, or will be said;		
	lithoid tufe of this mir. of lose. Issustring.	1 2 1 1 m	4.74
	Disectionalty.		
Seloo im.,	Clay, somewhat silty, light gray (dry); much		
derivitic and/	fissured. Vita e few send dikes. Lacustrine.	2.3	6.5+
or lower mbr.			
Dr.,	Sandy-charge silt and very silty char. gray;		
lever nor.	lameurine.	to govern	8.24

18 a (continued)

Dehoo fm., Clay, nonsandy, light gray; lacustrine. 0.5 8.74

Sharp contact.

Wyemaha fm. Fine sard gray-brown; lacustrine. Base not reached. 4.7 13.44

18 b

NEI/4MWI/4 sec. 25, T. 19 N., R. 29 E. Stratigraphic section exposed in N. bank of drainage consi cut through low hill in river floodplain; probably just E. of westernmost fault (buried) of Sagouspe fault zone, in a graben of this zone. Top of section about 3,927 ft altitude.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Fallon fm.,	Madium sand, poorly sorted, light gray; grades	The second secon	
lover mbr.	into unit below. Lacustrine.	3.8	3.8
Do.	Silvy elay, ten-gray, slightly liny.		
	Lacustrine.	2.0	5.8
	Sharp contact, possible disconformity.		
Sehoo fm.,	Medium and fine sand, gray-ten; lecustrine.	3.4	9.2
Opper mbr.(?)			
Dec .	Silt, light ten-gray, slightly liny; has thin		
	sand lens. Lacustrine.	30	10.2
Sehoo fm.;	Mainum roud, well sorted, ver-grey. Lecustrina.	100	11.5
upper mbr.			
Do.	Coarse sand, well sorted; local lens of pebbly		
	coerse send, pebbles like in present Carson River		
	channel. Lecustrine and alluvial. Base not		
	exposed.	1.5	13.0

18 e

NEI/4NVI/4 sec. 25, T. 19 N., R. 29 E. Stratigraphic section exposed in bank of irrigation canal cut through low hill in river floodplain, and 5-ft auger hole; several hundred ft W. of Sagouspe fault zone. Top of section about 3,930 ft altitude.

Geologic whit	Description	Thickness (feet)	Depth (feet)
Fallon fm.,	Silty fine sand and medium sand, graded into		
lower mbr.	underlying unit; light ten-gray. Lecustrine.	2.5*	2.54
Do.	Wedium and fine sand, gravish tan; lacustrine.	0.9	3. 4
Do.	Medium cand, well sorted, gray-ten; lacustrine.	1.5	4.9 <u>±</u>
	Disconformity.		
ence fm.,	Silty to sandy and silty clay; becomes		
dendritic and/	increasingly sandy downward, with some sand		
or lover mbrs.	pertings; lecustrine. Base not reached.	7.0	11.94

SE1/4 sec. 26, T. 19 N., R. 29 E. Stratigraphic section exposed in bank of road cut through low erosion remnant in river floodplain; top of section 3,935 ± It altitude.

Geologic unit	Description	Unit	Thickness (feet)	Depth (feet)
Turupah fm.,	Top 0.1 ft is silty medium sand, light gre	W.,		
bearing Toyeh	poorly sorted, somewhat calcareous, with			
will (ercdes).	nearly vesicular structure (post-Toyen			
	vesicular horizon). Remainder is medium a	sand		
	with much coarse sand and grit (mostly			
	inagneris of tufe of upper mbr. of Senso			
	im.); indistinctly bedded. Eolian. Upper	•		
	1 1/2 ft somewhat cemented by Toyeh soil			
	(slightly eroded), part below soil elmost			
	uncemented.	1	2.3	2.3
3.	Silty coarse-medium sand, light gray,			
	nearly vesicular structure, eligibly			
	ccleareous. Eolian.	3	0.2	2.5
	Disconformity.			
Seimo fin.	Madius sess, with some granules ituse and			
imer ner.	sous herd-rock tragments; highly ellow-br	CVI		
	gray; slightly lime-comented. Lacustrine.	4	1.5	5.0
00.	Colitic medium send, medium yellow-brown		Ye	
	gray, abundant cetracode, also rere aggres	gates		
	of tiny thinolite crystels. Lecustrine.	5	0.5-1.5	6.04
	Shery, undulatory contact (1 1/2 ft maxim	nin		
	local relief; disconformity.			

18 d (continued)

Dehoo fm.,	Clay, light gray; moderately indurated, we	11		
lower mir.	jointed; closer jointing and sand-filled			
	desiccation cracks in top several inches.			
	Leoustmine.	6	5.3-6.3	11.84
	. Sharp, even, conformable convert.			
Wyemsha fm.	Medium sand, very clean, bright orange-bro	un		
	yellow in top 2+ ft, grading downward to			
	Time-medium cond and some Time send; light			•
	gray to brown-gray; well-bedded to whinly	1		
	bedded; commonly micaceous. Latustrine.	7	10÷	21.84
Io.	Clay, medium brown-grey; lacustrine.	8	0.3	22.14
**	The second secon			
To.	Fine, micaseous sand, well sorted;			

locustrine. Esse not reached.

9 0.3 22.44

SEL/MINI/4 sec. 27, E. 19 E., R. 29 E. Stratigraphic section exposed in eanal bank and dug pit at base, N. side of outlet canal for "S Line" reservoir; top of section 3,940 ft altitude.

Geologic unit		Unit	Thickness (feet)	Depth (feet)
Turupah fm.,	Cosrse to medium sand, some granules and			
bearing	small fragments to 1/3 in. of tufa of upper			
Toyeh soil	mbr., Sehoo fm.: poorly sorted; pale pinkish			
(eroded).	gray; indistinctly bedded. Eolian. Coherent. cemented by calcareous horizon (eroded) of	ly		
	Toyeh soil.	1	14	1+
	Indistinct, probably disconformable, contact	t.		
Sehoc fm.,	Madium sand, some coarse sand; Light			
upper mir.	yellow-gray; uncemented. Lacustrine.	2	57	3 <u>*</u>
	Sharp, undulatory contact; marked disconform	ity.		
Seboo fm.,	Clay and silty clay, light brownish gray,			
dendritic and/	commonly with faint greenish cast; tough,			
or lover mors.	moderately indurated; well-bedded, feint			
	verve-like leminations. lacustrine. Strong			
	prismatic jointing, with joints more closely	ŗ		
	spaced in upper 1-2 it; local send-filled			
	fissures (clastic dikes) along joints.	3	7	10
	Sharp, ever, conformable convect.			
kyanste in.	Medium send, veli-exples, cragnit			
	orange-wellow; lacustrine.	4	0.7	10.7
Lo.	Fine-modium sand, well-soreed, trinky			
	bedded, light gray; legustrine.	5	0.7	11.4
Io.	Clay and fine sand, thinly interbedded, lig	ht		
	gray to medium brown gray, as follows: 1/2:			
	clay, 1 in. fine sand, 1/2 in. clay, 1 in. fin			
	send, 3/4 in. clay, 6 in fire clear mediu			
	brown-gray sand. Laguatrina. Base not reach	eā).6	0.95	12.3

SE1/4 SW1/4 sec. 30, T. 19 W., R. 29 E. Carson River floodplain, 3,960g P: altitude. Driller's log of water well dwilled in 1948; owner, City of Fillon; driller, John Champion.

Geologic unit	Description	Thickness (feet)	Depth (feet
Fallon Im.	Surface soil.	5	5
)e	Fine sand.		12
Dio -	Sand and gravel, water-bearing.	Žţ,	16
Wencha fm.	Sandy clay	žį.	20
IX.	Pine each and noth clay.	13	33
De .	Hard blue clay.	1	34.
De .	Fine sand and soft elay.	3	37
Dr.	Fine "tule" send (with dark-colored organic matter), very bad odor.	32	69
D .	Coarse sand and gravel; bad-smalling water.	10	79
Dc.	Very fine "tule" cand.	Ĭ.	83
Dc.	Commes said out gravel; "sule" (gramp) reter.	8	91
lc.	Brown clay.		92
	Fine cars.	3	100
son,	Fine send and gravel, weder-boaring.	9	109
TC ,	Trees dies	3	11.0
Do.	Fine Fard	13	123
Do	Revers clay.	2	125
Co.	Brown sendy clay.	5	127
Do.	Black soft "tule" (organic) clay.	23	150
De .	Brown soft sandy "tule" (organic) elsy.		165
Po .	Course send and gravel.	5	167
	160		

19(L) (continued)

Gyemaha fm.	Herê black clay.	3	170
?	Fine-sendy clay and mud.	138	308
?	Soft brown clay.	5	313
?	Fine sand, clay and mud.	17	330
3	Light sandy clay.	2	332
?	Hard brown clay.	2	334
?	Gray clay.	2	335
?	Soft clay and mud.	56	392
?	Senā.	63	455
Probably baselt of Rattleanake Hill, or Bunejug fm.	Hard black baselt.	3	458
Do.	Porous lava rock.	2	460
1 0.	Porous laws, slightly harder.	15	475
De.	Porous lava.	ކO	515
De.	Very hard lave.	6	521

19 a (L)

SEL/45WL/4 sec. 30, T. 19 N., R. 29 E. Carson River floodplain, 39604 ft altitude. Driller's log of vater well, Grilled 1941; owner, City of Fallon; driller, John Champion.

Geologic unit	Description	Thickness (feet)	Depth (feet)
Fallon fm.	Surface soil.	5	5
Do.	Fine send.	7	13
Do.	Sand and gravel, water-bearing.	Ц.	16
Wyeneks in.	Sandy clay.	14.	20
P-7.	Fine saud and soft eleg.	13	33
Do.	Hard blue clay.	1	34
Do.	. Fine said and soft clay.	3	37
Dr.	Fine "tule" sand (with dark-colored organic matter), very bad odor.	32	69
	Coerse send and gravel, bud-enalling water.	10	79
20.	Very fine "tule" sand.	Žį.	83
Do.	Coarse sand and gravel, bad-smalling "tule" vater	. 8	92
D7.	Brown eley.	7	92
	Fine sand.	0	1.00
T	Fine sand and gravel, waver-hearing.	9	109
Dei,	Brown dieg.	***	110
Do.	Fine said.	13	123
Do.	Brown clay.	2	125
Dr.	Brown sandy chay.	2	127
La .	Black soft "tule" (organic) slay.	23	150
De .	Brown, soft, sendy "tule" clay.	15	165
T× .	Coarse sand end gravel.	2	167

19 a (L) (continued)

Wrenshe In.	Hard black clay.		3	170
ç	Fine send, clay and mud.		138	308
C	Soft brown elsy.		.5	313
ç	Fine send, clay and mud.		17	330
?	Light sandy clay.		2	332
8	Hard brown clay.		2	334
?	Brown saudstone.		2	335
f)	Soft clay, mid and silt.		56	392
?	Soft, samey, clay.		36	428
?	Two-inch bleck rocks.		1.	429
?	Brown soft clay.		3	432
?	Fine send.	1	1	£33
	Mard brown clay.	÷	15	448
Probably besait of Rottlesnake	Large black rocks.		58	506
Hill or Burejug				

19 b

SW1/4SE1/4 sec. 33, T. 19 N., R. 27 S., 4,010 ± 5 ft altitude. 1904 water test borehole, no. 45 in Stabler (1904) report; water level 17.5 ft below surface in 1904.

Geologia		Thickness Depth
wit	Description	(feet) (feet
W emana fr.	Será.	12 12
13	Oley and sand.	4 26
Do.	Clay.	1. 17
De la	Sand.	4.5 21.5

NW1/4 sec. 35, T. 19 N., R. 27 E.; 3,995 ± 5 ft altitude. 1904 water test borebole, no. 46 in Stabler (1904) report; water level 11 ft below surface in 1904.

Geologic wnit	Description	Thickness (feet)	Depth (feet)
Wymoha fm.	Coarse sand.	2	2
D.1.	Sand.	1	3
Do.	Silt loam.	1	£.
Do.	"Alkali hardpan".	0.5	4.5
D	·Sand	2.5	7
Do .	Coarse sand	3	3.0
Do.	Gravel.	2	12

21 (L)

SEL/WHEL/4 sec. 33, T. 19 N., R. 28 E.; Carson River floodplain, 3,982 ± 2 ft altitude. Driller's log of water well, drilled in 1944 by Geo. F. Shuey, Fallon, Nev. Had to seal off lower part of well; using water from pea gravel at 98-100 ft.

Geologie wait	Description	Thickness (feet)	
Fallon fm. and			
Wemaha im.	Saud	25	55
Wyensha fin.	Olay.	c _i ,	25
	Sand with streams of clay (aquifer).	34	50
Do.	Meck sand.	10	70
Do.	Clay.	5	75
The .	Sand with streaks of clay (squifer).	18	93
Do.	Clay.	5	98
) 	Fea gravel (good aquifer).	2	100
D.	Clay.	3	103
⊃c.	Gravel.	2	105
DK .	Cler	5	107
DC v	Black sand with sulfur water.	3	1.1.1

About 200 ft E. of W1/4 cor. sec. 35, T. 19 N., E. 29 E. Composite stratigraphic section exposed by pits in side of erosion remnant in river floodplain, and by septic tank pit at Bauman ranch. Top of section 3,942 ± ft altitude.

Gelogic.	Descriveion	Thickness (feet)	Depth (feet)
Filon fm.	Medium sand, well sorted, light brown-gray;		
lst lake unit.	tufe fregments. Lecustrine.	0.5	0.54
	Disconformity.		
Selou Zm.,	Medaum send, light brown-gray, well sowted;		
unger mbr.	lower 0.1 to 0.5 ft has fragments of tufa of th	15	
	mbr. and of platy limestone from older mbrs.		
	of Sehoo fm. Lacustrine.	1.5	2.0
Dn.	Medium sard, well sorted, thinly-beided;		
	numerous clay pellets; some estracod coquina		
	partings and thin lenses with tufa fragments.		
	Lacustrine.	0.6-0.8	8.8
	Sharp, irragular contact disconformity.		
Sico fm.	Clay and biley clay, some interbedded fine		
depárátic szi	sand and silt in lover several feet. Light		
lever mbrs.	brounish-gray, faint green east; ostracods.		
	especially in lower part; thin interteds and		
	Laminae of ostracca coguina near base. Lacustri	ne. 9.5	12.54
	Sharp, even, conformable convact.		
Wencha in.	Fine micaneous sand, light brown-gray, some		
	thin interbeds of olive greenish-gray silt.		
	Lacustrine.	24	14.50

NGL/WHG/4 sec. 35, T. 19 N., R. 30 H. Auger hole in Stillwater Slough floodylein, beside Stillwater Reservoir diversion canal. Top of section 3.915 ± 3 ft altitude.

Teologic	Peserdytticz	Unit no.	Phiches (Peot)	Pepth (feat)
Fallon in.,	Conty silt, dark gray. Alluvium	2		17
was mbr.				
	M seemicaning			
Fillon Sal	Chay, silty, dark gray nottled with ten;	2	€. €	3.8
in the Distr	tighty caline, gynationer. White			
probably 28	pumicesus ash 1/2 to 1 is. parting			
lake unit.	about 4 in. above base. Laustrine.			
Fallon fr.	Clayey, sandy eilt, poorly sorted,	. 3	2 2 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	3.9
possibly let	probably alluvium.			
interiole unit.				
	Diesenfermity?			
Ecion II.	Cleary sile, offer free; lecustries.	<u>P</u>	0,6	8.3
proceeding int				
LESS SETT				
Mr.	Time rand, white is top 0 1 ft, chase	2		5
	telow; the end for egrey; leavest inc			
ĭe.	Fine sand, clean, interbabbet with silt			
	and mility fine sand, lecustrine.	5	2.2	6.5
140-	Silty clay and clayer wilt, dark brown;	7		6.8
	lacurtring.			

21b (continued)

Geologic vnit	Bescription	Unit no.	Thicknes (feet	s Depth) (feet)
Do.	Silty fine sand, dark ten-gray;	8	0.6	7.5
	lecustrice.			
Do.	Silty clay, dark ten-gray, with some	9	1.3	8.8
	silty-sandy clay; lacustrine.			
	Disconformity.			
Sehoo fe.,	Clay, dark olive tax mattled with black;	10	0.8	9.5
upper or	lacustrine			
desdritic mbr.				
5 0.	Silty clay, olive mottled with dark gray;	11	6.9	10.5
	lecustrice.			
Sehoo fm.,	Clay, olive; lacustrine.	12	2.6	13.1
eneritic mbr(?)				
Sehoo fm.,	Clay like unit 12, but with tufa	13	5.0	28.0
deneritic mbr.	modules, colites, and ostracods, especially			
and possibly	abundant in top 2 ft. Locustrias			
logar mbr.				
Bor, smbably	Bility clay, olive to olive-tam, tem,	24	2.5	20 8
COVER MILT.	end olive tun gray, mottled with			
	rust-brown spots. Lacustrine. East			
	not reached.			

NGL/4561/4 sec. 35, T. 19 N., R. 30 E. Auger hole in flat between School Mountain and Stillwater Slough. Top of section 3,919 \pm 3 ft altitude.

GEOLOGIA	Recalibrica	mit no.	Midwess (feet)	Beyth (feet)
Fellon fin.	Clayey fine sand, hard-cemented, dark	4	2.5	1.5
lower mor.	gray to nearly black, saline. Grades			
	to fire-sendy clay at base. Mainly			
	lectrice.			
io.	Clay, iccally with silt sad a little	2	8.5	W_O
	very fine sand; dark brove-gray to			
	seedy blook, while epeganism,			
	especially in lover part. Laguetrine.			
De .	Mo., with abundant line modules and	3	7.0	5.0
	acit segregations. Line nodules are			
	sectly 1/8 to 1/4 in. rerely 1/8 in.			
	dien., irregular forms.			
a.	Cley, ten-grey, without line modules;	20 g	0.3	5.3
	lecutulne.			
Ge:	Clay, ailty, block a tules with two	5	C	5-6
	lecurinine.			
	Dicompication representation sebecalcol especia	. The state of the		
Seico fir,	Cley, growish olive green moutled with	6	0.2	5.8
upper mör .	block (restoraceous notterprobably from			
	vegetation during designation).			
	Locustrine.			

declogic wait	Pasoripálca	Unit no.	Thickness that	s Septh
Sehoo fir,	Silty clay, dark yellow brown, seline;	7	0.6	6.4
upper mbr.	leougirine.			
ic.	Silty clay, dark yellow brown to dark	8	2.3	8.7
	elive tan, mottled with rusty brown			
	spots; selemite wis and white waline			,
	segregations (probably mostly gypsum).			
	Kacestrine.			
ches fr.	Silty clay, grading dammend to clay;	9	4.0	16.7
deadritle rbr.	olive. 1.3 to 1.8 ft balow top of unit		1.4.00	1.032 9
	contains whitish partings or segregations,			
	some with abundant ostracode. Lacustrize.		4	
ි ්	Silty clay, nostly elive, sume brown	10.		ill : 0
	apous lecustrine.			
Da,	Clay, himy (effertesces etrongly with	11	0.7	Sale of the sale o
	HCL); tufa modules; Leavetrine.			
වර .	Clar, olive; lecustrum.	75	201	16.2
Seloc Ir.,	No., combains minute thizolite	23	- 6	16 L.
whicalite ser.	oryricle Lecurorise.			
Seiroc fin.,	Clay, olive; lequetrine.	14.	0.64	27.0
lower libr.	Base not reached.			

MEL/4 sec. 36, T. 19 N., R. 30 E. Auger hole in flet between Rainbow Mountain and Stillwater Elough. Top of section 3,917 ft altitude.

Geologie unit	Perezimies	Unit no.	Inickness (force)	Nepth (2eet)
Fallos file,	Fine-medium sand; brown, silty in upper	7	: .2	1.2
sacond and	few inchez; gray-brown lithoid tufa (of			
firet lake	first lake unit) fragments on surface;			
units.	lover 1/2 ft incressingly clayey.			
	Locustine.			
Felica fin.	Clay, dark greenish gray, much	2	3.8	
first lake	carumaceous metter and some edmined			
unit.	acud, susil chell fragments, small			
	freguente of tufe of this wait, line			
	podules, colites, and ostracods; a little			
	coerse need est grit in uppercost part.			
)	leastries.			
	Dicerriorsti			
Schoo 12,	Clos, chive-greenich gray; some pertings	33	3.0	6.0
dendritie mbr.	of cabreced cogniss and rusty the sarty			
	elem leavening.			
Seisco in	Post to the mane thindlite engrebale (election	$i_{\hat{p}}$	8.0	2
whiledire mis.	1/8 in long by 1/32 in thick);			
Senco fa.,	Cley and silty clay, grayer and less	5	8.2	16.2
lover more	gream, and siltier then units 3 and 4.			
	6.4 ft from the top of unit is 1-is.			
	bed of rusty brown fixe-medium smid.			
	loguetale.			

22a (costinued)

Geologie unit	lerestriler	viit eo.	imichiese (feet)	Dayth (feet)	per et e
Schoo fa.,	Volcanie est, silt end very fine	6	0.1	16.3	
lower thre	serā-vized, pure white; CaCD, -comerted,				
	top very hard, bottom softer; aquifer.				
	lecustries.				
Mysache fm.	Silt and clayey silt, some interbedded	7	2.7	19.0	
	very fine scudy graculab relies brown to				
	olime gray; same gray green silty aloy;				
	abundant cottects. Leotetzina.				
<u> </u>	Upper 1 ft is silty cloy, gray green,	3	3.0	26	
	motiled with alive tex-gray; electest				
	estroople. Relet becomes impressingly				
	deriver greenish grey dummers, with this				
.07	invertable of very fine such and silt.				
	Silgit ergomic of a lectatring.				
Fc.	filty alog med alsy, polyactaly into	9	2.0	21. 0	
	Chest-Engli Teadinages				
Ec.	Fer hat with some this interheds of	34		SE S	
	rent file serd, silty file seed, and				
	silt. Loonstrike, kont net resoked.				

SMI/4 sec. 31, T. 19 N., N. 31 E. Auger hole in flat N. of Reinbor Mountain, at road intersection. Top of section 3,939 ft altitude.

Geologic Welt	Tescrittion	Unit mo.	Shickness (fest)	Pepth (fest)
Fallon da.,	Send with admixed grit and very small	1	0.2	0.2
ADLO: ALT.	pebbles, loose. Bolian.			
Falloz Ma,	Fine-medium sand; top 34 in. is silty,	2	3.0	1.2
lat loke unit,	light gray, somewhat vesicular, slightly			
bearing "I"	Codd, -cemented (vesicular horison of "%"			
Wedn sell.	Drain soil), remainder le vell sortei, light			
	hrous changing doublemed to tree (lover part)			
	of "l" Brain soil profile). Leoustries.			
Pallon fir; ot lake vait.	White puniceous esk; locustrine.	3	0.2	2.
Do(?)	Pine, cilly cent, clive ton at top,	ŢĒ.	0.7	2.0
	becoming darker countries lecosti int.			
	Mechadomics			
Seace Sie	Miro-green digr. with a few and product	5	6,0	8.0
spec ond lan-	portings, compally their brown coloral,			
desiminio ebmo-	2/2 in parting of a like pariosons orb			
	1.9 to below top of whit. Linestrine.			
Selion fin.,	Clay, somether sility and/or sundy,	6	1.54	12.5
dendrinie and/ex	greenish-gray, with a fer interbeds of			
	olive-tou gray clay. Leanstries.			

SEL/ASEL/& sec. 31, T. 19 H., R. 31 E. Auger Hole in flat N. of Reinbow Mountain. Top of section 3,933 + 3 ft altitude.

Geologic mit	Decertifica	Unit ng.	Frickness (feet)	Depth (fest)
Fallen fa	Clayey fine sand grading to fine sondy	2.	0.5	0.5
		4-	00,	201
let less unit.	clay, clive; ebundant fragments of platy		·	
	turn (generally less than 1/8 is. thick);	-		
	gray. Lacustring.			
Seboo En	Clay (little silt), chive; to line	2	3.6	3-5
	sociles lecuristas.			
Po.,	At top, silty clay, olive gray, grading	3	0.6	9-1
lower mbr.	to clayer fine sond and ready clay at			
	base; lecustrine.			
Io.	Gritty medium sand (fairly clean	ly.	0.7	98
	medium sand with aboutant granules and			
	some publics to marely more than			
	1/2 lb. diem Inch bring.			
Trucket file	Feebably veil or altered tuff; top	5	2.3-	11.0
	O.S. St. voti'e, remeluder bright			

22d (I)

of Rainbow Fountain; 3,935 ± 5 ft albituda. Briller's log of test well for oil and gas. Brilled about 1922 by A. L. Robinson and others for the Calmera Oil Co. and its successors, Calmera Trust Co. and Lest Chance Oil Co., to total (reported) depth of about 1,472 ft (reached in Sept. 1924).

diclogic unit			
Falica Al.	lmist soud	3	
Setto En	Tellor cler	6	Ç
Di.	Erem cicy	14	in the second
Agenda In	Elea clay	10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Hyenoic St.	Fire black sond	8	38
Retue in-?	Course gravel	.5	Li
?	"White posous substance, soline precipitant"	4 2 64	55
	"Lima comancetion."	7	96 .
Durjug in ?	Vesicular or asymmicidal bacelo	301	162
Trucket in 4	desire es ha es beneades	60	222
Do.	Soft blue shale, occaració chally Mard leges	22	The same of the sa
Pa.	Internal allower and the first order and additionable	G.*	
Elf e	Trong section stands	55	, c.
FaC :	Trong skills	E.	926
Pc.	"Grow livy assembation"	10	532
Et ,	Erectes diet	2	531
Ec.	like groy sand	82.	355
	Hara wilicesus wit	A	556
io.	Error shelp, chilly	9	5S5

22d (L) (continued)

Geologie unit	Rescription	Thickness (feet)	Henth (feet
California (1)	A TOTAL AND A LANGUAGE AND A STATE OF THE AND A STA	A Marchani de Andréa Antonio de Carlo d	THE PARTY OF THE P
Truckse in.:	Fine gray sand	2.5	565.5
ilin .	Brown shale, with burd ribs	103.5	571
Po.	Brown sandy shale	33	704
D.	Rand gray shale; "beseltic injection"	E L	748
No.	Berne cendy shele	12	760

, which use. 4, T. 18 N., R. 31 E. Stratigraphic saction exposed by dug pits and transless in take tar northeast of Relabor Mountain. Top of section 3.970 ± 5 ft altitude.

2001000 December 1		Talairena	Beptil
er er som fill sig Nobel er er fill sig Til Mitter er til Mitter er til sig		(1888)	Tree
Schoo fm.,	Reboly fine-modium sand; pebbles are demonitie		
boundag	tufe and late lithoid tufa of this mbr.,		
Toyon noil.	Locusteurs. Wegen soil in top 14- in.	And w	* **
Salue fals	Mas-malian and maine soul, tell sorted.		
denomica e nece		16- ee	14.00°
Seboo fir,	Mostly sensy silt; rose clayer silt and silt in		
lover eed desdritic wore.	top 2 ft.; lacustrine.	6	110
Seine in	Macana and fine-radius send, well sowed, well		
iover lessiville Ecr., trus- greceive phase.	deliad; lesururine	to quide. See to the second s	
	Firemination,		
Market in	Dale of the explor send, but or editor:		
	bas der sijogel.	134	2 () =

SEL/MARI/4 sec. 2, T. 18 F., R. 30 E. Auger hole in flat north of Sence Mountain: eltitude, top of section 3,522 \pm 3 ft.

Geologia	The state of the s	Unit	Thickness		
LINE OF THE PROPERTY OF THE PROPERTY AND ADDRESS OF THE PROPERTY OF THE PROPER	The second of th	EO.	(feet)	1205	
Fallon fis. 26 leka unit.	Fine-ection serd, tea, clear; lastetrine	2.	0.6	0.5	
Be.	Fine-sching said, salty to clayer, deck	2	0.6	1.2	
	heori-gray: Lorustrine.				
Faller in., let lake welt	Silty clay, dark brown to black; lecustrine	e i	0.5	7	
Nos	Silvy clay, com, with black streets, and com-	14	0.8	2.3	
	serie alore leavetering				
Do. ·	Silty clay, dork brown-groy: lecustring	5	0.5	7.0	
	Disconformity				
Sekoo ik. , nppor mbr.	Clay, mobiled block or alive-ter; lectrimine	E	2	4.2	
deno fi dantifica ute.	Cley, clive, with morey spate; lecontrine	£	5,3	5.0	
No.	Clay, sidebly jellog, claye gray, very	5	5.0	20.0	
	list. with estroom , colines, and stold this	8			
	Both Made not be repaid through the				
	forth pure military our very of occupant, take to				
	Services of Lies (1999) (sinh is edictor ericles				
	The section of the se			1	
	the second of the second of				
Scho fa	bo., but with manufa expedels of thirdlife	5	2 0	18 0	
windin Er.	traffic.				
Sairco A.	Cley, scandist alling, drab olive-brown gray	27	33,4,	G.	
	(news solity and been, less sweet than				
*	unio 6); cirror mice Chine. Collines and ran	B.			
P5.	Sufa notales common in cop 1 ft, none below . Below top 2 ft the eley commonly contains some sufficient is very constant in historiegs. Result White volumnic (year series) and, commented.				
	The book is Interested		e	24	

SEL/ASVL/E see. 2, T. 18 N., R. 30 B. Auger hole in flat north of Seboo Nouncain. Top of saction 3,926 * 3 2t altitude.

CECLOGIA		Unit	Thickes (feet)	Tegvia (2001)
Ralion Se.,	Fine-makkum samā, mone or less silty and			
firen leks	clayer (esp. near bottom); somewhat Caffe			
voja.	cemented Lacustrine.	1	2.0	2.0
	Disconformity.			
Selca Nu.	Cley, comewhat eilby, with tufe nounger,			
i es lictivito entre.	colliber, can establish clima grays			
	Lecurtrine.	2	3.0	9 (4
Sehoo Min,	Do., with this lite tufa argutals, generally			
thinglite phr.	6 1/32 in. thick and 1/32 to 1/6 in. long,			
	most abundant 2 ft below top of unit,			
	Securealing tyrand and occurrend from this			
	level. Lagusopine.	3	5.5	8.52
Selec in.	Silvy clay, detering the stalvy down tri,			
low- me	clive grap. 2 1/k for below upp of must is			
	le in layer of griv such small public to			
	of which rate a Set parkings of Sknowskip			
	silly clay, with the large 1 1/2 gt these			
	me acusta legastrile.	1.	13	21 12
D	White puniceous asin, hard-ounerhoo.			
	Lacupta ze.	5	0.3	**************************************

24 a

3 % cor. , Zec. 4.6, T. 18 N., R. 29 E. Stratigraphic section exposed in bank of drainage canal in delta of first Fallon lake. Top of section, 3,945 ft aktitude.

Geologic unit	Jeseription	Thickes (feet)	Depth (feet)
Selior in.	Silt and fine sand. Alluvium.	3.5	3:
rijan ndr.			
Police for Aller	Fire sand, clean, gray-brown.		
lake univ.	Locustring.	J	L.Y
D>-	Firm-sandy clay, dan't hant lected white.	0.3	t while
	Sharp contact, disconformity.		
Turqeh fm.(?)	Clayer coarse sand, may brown.		
	Alluvium. Base rot exposed.	0.7	5:

Name of Swear sec. 4, T. 18 H., R. 29 F. Stratigraphic section exposed in bank of drainage canal and 2-ft auger hole at bottom of canal. Top of section 3,947 ft altitude.

Geologia univ	Description	Thickness	Ispub (feet)
Fallon in., first	Fine sand and very fine sand, clean, light		
inveriale unit,	brown tan; solicn. Top 14 ft is weakly		
hearing "I" Drain	indurated by very weak scil profile		
EDLL	("I" Drain soil).	3. 54	
Fallon fa Citys	Fine Send. Same top, (Laut, Lacoritaine)		34-
lake unit.			
Io.	Sandy silt, dark-olive gray; lacustrine.	0.3-0.5	3-5±
	Disconformit;	* 4	*
febon fm.,	Fine-serdy clay, grow-brown;		
ipper mbr. ?)	lecururing. Hace of a canded.	35	6.54

26(L)

THI/WHIL/4 coc. 5, T. 18 N., R. 29 D., 3,9504 ft, eltitude. Driller's log of water well; owner, Eeck's Meat Mothet, Follow; J. B. Reynolds, driller; well completed January 3, 1948.

Geologie unit	Description	Thickness (ft)	Repth (fit)	
Pallon In.	Sand and soil	18	Contraction of the Contraction o	h-14-80
Seino In.	Clay	5	25	
Evencha fa	Sand, weter	55	15	
£0 a	Elack sand	16	62.	
2000	Mue sand	24	23	
Do.	Nine clay	11	9%	
lo.	Hive seed. Paver content subdim	6		

26c(L)

SMAJAMA eas. 6, T. 18 N., R. 29 N. Carson River fleedplain; cititude, 5,960 & 60. Driller's log of water well; cener, Membanas Agricultural Experiment Montion of Univ. of Nevede; well completed December, 1948.

Geologie unit		Tolches (ft)	layid (ft)
Tellos fr	Coares send, some streets of cley	20	20
	the grade and of games and grades		
Transles In-	er about . List th	23.	
Ro.	"Lakowban" eleg	Ξ.	32
Io.	Meck fine send	5	50
lc.	Devin clay	2.	* 1
Tie.	Mark Are ("13cro" vand" .	22.	48
75. 75,	their tries organis min, his non	&	50

Timic "granitue" soud combal with black copyris matter, with complements the character of continues (black) wood fragments. (but one decent bracks, i', a city

265 (1)

INI/GRAI/S sec. 1, T. 18 F., R. 28 A. Corron River Electrician, mititude, 3,562 1/St. Briller's log of verter well drilled in 1948 by J. B. Reynolds to 110 ft depth; 6-in. cosing.

Geologic mit	Resertition		Michaes (ft)	1.GTV2
Follon in.	Seed		The state of the s	Control of the Contro
enco in-	"Wante" cley		7	3.5
NOTES IN	<i>ରିଲ୍ଲେଗ୍</i>		20	25
Da.	Soft eleg		9	37
20 a	Else sand		18	155
Do.	Plack Trô		20	67
Do.	Dissir quarres cand	1 .	21	92
, , , , , , , , , , , , , , , , , , ,	Eine cirp		**************************************	93
450	There end to			220

F7 (L)

SEL/MSEL/h sec. 4, T. 18 H., R. 22 D. Ariller's log of weber well; eltitude 3,980% ft, owner, Een A. Pflum; Griller, Mel Meyer; well completed ingust 18, 1989.

Geologic unit	Reservation	Thickness (ft)	Septh (ft)
Faller fa	Topseil	20	3.0
Seisos Sizo	Cloy, srange	Ę,	15
Francis in	Fire sand	30	1.7
Do.	Black clay (swarp)	2	50
Ic.	Block soud, fine	5	55
Po.	Green-grey send	5	60
6 6.	Cray cand		65
Tio .	Course cand	2	67
De.	Riesir clay	8	500 cm 6 big 2 d
No.	(e.cy rand	a.	50
Do.	Fine time cond (quies)	3	£13
Yes	Fine grew send (grass)	1	90
20.	Time gray band (crisis)	enter of	208
Dc.	Green estay clay	60	100 To 10
Fo.	Fine grey send (quick)	23	114
EC.	Elve clay	N. S.	125
ie.	Misch mis white configures?	22	147
Do.	Micek Sine mond (quick)	10	2.65
To.	Gray coarse and the sure, value		

Mane between sec. 8-9, W. 18 H., P. 29 H. Altitude, top of section, S.946 ft. Structigraphic section exposed in bank of desirage canal in Carson River flooiplain, and augur hole in bed of canal (lower 3 ft of section).

Reclagic	Exparigolor	Had	Thickness (St)	Poptia (Lt)
Fallon Sm.,	Fine to course saud, possiv-corted,	7	: .2	2.04
TOTAL TILES	light tow-grow, notherwally 0x30			
	essential Allerder			
Californ Since	Fine sand, clean, Might brown.	2	0.4	2.6
Mrst lake unit	Locustrine.			
Ten.	Arterbedded Tine soud (clear, light	3	T. 150	3.5
	borns end soudy will incline brom	S	-1	
	Leoner are.			
100	Sará, light ton-grove grades d'un	i.	1: 5	7.3
	ilinit intermedica term dunc comb, t			
	er e silv mi diçi i vişa (sempe)			
	ರಿಕ ಕ್ರಾಗಿಸಿಕ್-೬೫೦೫೩ ಕರ್ನಿಕ ಕರ್ಮ			
	greened railors willed to eather	ù		
	into ciinvina			
	Recogneciation discussions by			
Color M.	Oley, clive-brown gray. Lacustrine	5	37	20.2
Typas sha				

mas hydroxa com Selt, m. 26 t. . 1. up S., without, buy of section, f. . 30, div. of decimage that ou sign of mass upon.

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	Associate of the Admiris, products	C		
	insights bakesments horizes. Last	e iniat .		
and the Date Continue	The warmer of the lotter.		24	& % _
C _{PG}				
Fair Co, we see				
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	alter or Some			
2012	Since the state in the secretary	+		1 1
	*			

* 1

1/4 mile W. of SE cor. sec. 11, W. 16 E., H. E) E. Stratigraphic section exposed in bank of drainage canal, and 3-ft auger hole in canal bed; in delta of lat and 2d Fallon lakes. Nop of escalon, 3,930; ft. altitude.

(eologic	Description	Whickness (It)	Septile (24)	
Pallon file.	Fire and medium sand, poorly moderately			
Mi. Lebe unit	eartet, light ten-gray. Leonstrine.	3	. 3	
Fellon St	Silvy scale learnings.	2	E	
let lake writ.				
Do.	Cley, brown grey, lasustrine.	Ep.	9	
	Licecutomity.			
elico fing	Sandy and wilty eleg. horaptains.	E	3.1	
Char Epa				
Science Inc.				
dezámine	Antonine. Aus Doi Magnied	2.3	-5.5	
endine letter for.				

0.2 ml. S. of 1/2 sec. cov. between sec. 9 and 10, T. 16 H., R. 30 E. ager bale in flat north of Tish Cave of 3,927-ft shoreline of the second Fellon laws. Top of section 3,9275 ft chtitude.

	Bescription	Train No.	121111111111111111111111111111111111111	Septile (37)
	/	(Log)		
Follow Co.	Fire-redium send, dark gray to black, all	in's		
rearud lola	essions come, none clar and and decid decide.			
with.	Trigonomical in the second of	The same of the sa	C 2:	0.6
	Fine-wooling name, police-brown; leasustain	2 2	G.5	0.7
	Disconformity.			
Felion fm.,	Silt and elsy, don't gray to black (with le	ocal		
Cises Lesc	resty spots, cloud femous sects), corrects	ecsee .		
a the to	locustrus.	3	3.6	h = .
-rc =	line cont, alway ent city, with some is	(อาร์โปปไป		
	of the same sile, will do down the grow-			
			5	6 1.
	Selecto Adoptings.			
the Sing	Cler, cristing silver, the mich gray;			
i audrītic lībr.	Le ou official	100	30.	T. if
Sing En	ko , tota singener sund. Viinalika espeti	10		
ilimolika ubo.	in upper 0.9 St and a fur in lover part;			
	La depotration	6	1.6	9.0
in the	Silvy clay, prove-gray valid tradubitume sy			
omes Eles.	where the remarks who will be bringer	7	20.8	14.0
7 75 4 4 4 4 4	Redduc said, elever to clear, reco-count	es.	20	15 €
-0-	Le province:			

29 (condinues)

Commence of the Commence of th	The second secon	20.	Taleimese (av)		THE T
িশ্বতে হিন্দু	Clay, ellby and Mine-contr, green gray;				
constructions	levés half comunier abuzécat liza modules	පෙර			
	malisive-bounds publikes to 1/6 in. diem.;				
	Lengt Cillo	9		19.5	
Jo.	somir clay, green-grey, with allty eley,				
	misidiam-great, the but a lighterature.	10	C.3	0.0	
TENOME E	lime cond, cisem, grayiai olive-tem;				
	Les de la	61 95 5 0 8 0	0.5	20.5	
**************************************	Cald, green, with musty equip;				
	lecordaine.	12	3.5	men f	
F-4	Mit, depty wilt out allow day, deeb				
	gamples-minifest great, sugarés costi		1		
	intellige to expending the soletical				
	Separtedian -	7. 2.	4.6		
	which they daily grant and grant				
	is nearly blown, enough regards small.				
	lestice.	2,13	L 2 2 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	24.5	

SUL/ARRA/A cec. 10, T. 13 N., B. 30 E. Auger Fole in Alet north of Figh Cave, at apprenium to high charaking of second Pallon Lake. Top of section 3,928 /Ft

Total		Bed.	The market with	4.2.1
TAMES OF THE STATE	erafy etki, feri graj, may erline (nofik		ent v s ne nom s	the state of the s
the state of the	Confections, the "England and ground)			
	All the same was to be a second	-	9.5	5.5
it's	Line of the contract of the contract			
	continue, weeklas dali letta se			
		41-1 14-1	9.5	5.6
10.	The road class which in the			
	. T. Y. 12 MAY 1 0673 00 4 MAY	2	0.4	400
	real of the state of the said			
	The state of the s			
	The state of the state of			
ž. <u>-</u>				
	\$5.25 BOX25	**		5
	A CONTRACT MERCANDOS T			
164 26				
s suiation (1000,000			4.5
1435 G	and the state of t			
5				

SWL/45WL/4 sec. 10, T. 18 M., R. 30 E. Auger hole in flat north of Fish Cave, 1/4 mile H. of road. Top of section $3,929\pm3$ ft altitude.

		Unit no.	Maideness (ft)	Dapile (ft)
		(Top)	Consideration of the Constitution of the Const	and the second
Vallon fi lower mbr.	Clayey sand, locustring	The sales	0.2	0.2
	Disconformity.			
Calaco fa	Clay, guite silty and recey, graceish	2	ends c	32.5
	රාස-යුතා : ඉන්රාම ප්රතාන්තන් සඳහා රට විරේද්තා,	and the same		
	upper 2 ft despar clive-green, with a f	er gartin	Ç.	
	of fine semi and of crimmod coquing.	Ostracod		
	partings continue to 4 1/2 ft below top	. 150		
	Withelite. Lewstrine			
Grand all s	silve clay, demic gray to gray-ton, with	and the last		
	A in. chem Sire sand. Locustrine	3	Ĵ.	nin d
35.	Silvy cley, jet blody highly corborne	300		
	munici empresa qui come I, i elez. Il sunt	stire 4		27.5
-	Salt jet bleek, with tribuge of bleek	وي و المحادث		
	será; organia ent clas to Z.E ctor.			
	Lacustrize	5	0.5	18
3624	Fire-medium sumi, black; organic and al	ighé		
	Hes cler; leous bring	6	2) (2)	20.5

SEL/4SEL/4 sec. 12, T. 16 N., R. 30 E. Stratigraphic section exposed at bead of miniature box canyon in gully at northern edge (base) of pediment between school Nountein and Rainbow Mountain. Top of section h,020 \Rightarrow 10 ft altitude.

Ceologie Vait	Description	Unit	Thickness (ft)	Depth (ft)
Ishonten group and Fallon fm.,	Lake Cravel and sand and eclien sand,			
undifferentiated	. undifferentiated.	1	0 to 10	10+
Pra-Lake Laborta Guaternary lake	n Coarse sandstone and pebbly gritscone	2	L+	142
	well cemented, hard, with thick, parallel			
(Euch erodud)	bedding. Fractures are filled with			
	coloche-lib salehm carcance, resembly			
	that in lower part of the Cos horison of			
	the Coccon soil. Probably lacustries.			
Fre-Lake Lakonve	n Sand, pebbly sand, and gravel, mostly	3	5-	194
lake čepostite	rather poorly sorted; partly consolidated.			
	audistinct, parellel bedding. Probably			
	lecurulite.			
\$ a	Mante tuffeceous senéstone, herd.	14	C.1	100
\$ ·	Teighty a mid and acut, cheen, cheen-hadded.	5,	D. P.	2
	paraly consolidated, probably lacustrine.			
	Ruse not exposed			

Este: Unite 2 to 5 probably are shore sediments of a pre-lake laborar Fleistopene lake. At the section locality they dip northward about 2° and are displaced by times small faults, downward on north sides. Thenry feet to north unit 2 is eroded and the lover units grade rapidly to poorly screed madium gravel dipping about 45° to the southeast, evidently part of a lacestrian bar or spit. This gravel contains pebbles of white tuff and distomite similar to moterial in the upper part of the fruckee formation on the pediment to the south. This emporers appears to be in a fault aliver that is bounded by two inferred (concealed) east-west finits near its upper and lover ends (pl. 1, 3c).

T./8N, R.30 E.

NEL/AMEL/A sec. 12, A Auger hole in flat at base of saddle between Regles

Couse and Rainbow Mountain. Top of section 3,945 ± 5 ft altitude.

Rologic mit	Description	Dali no.	Thickness (feat)	Pepth (feet
ellon it	Pino-medium cond, fairly clean, moty	(CA)	a gualendaren de um gutare a fallega de antidos militares.	The second secon
TIT	ten; lactetrine.	es.	2.6	1.2
	Risconformity			
wice fil.	Clayer sand, grading to vory sandy ale	10 to 1		
ender the clot	dest clive green. Leouvilne.	2	c.e	3.8
G.	Sandy and silty clay, clave drab; lactuatrine	3	3.8	5.6
behoo Ar.,	Medium sand, with some course sand, ol	276		
inter mos.	tan; lacustrine	Žį.	(.2	5.8
e 9	Builty fine coud and fire-seaty will e	cas .		
	clara, sili isteriods, clive, corre si	C s		
		5	t) t	4
	frine pulceus ush layer fabour i no	2 in.		*
	tant vičerlaža i, majo ječ motom se			
	dual, siem, some sing on on singly	, c'ive		
	gover. Hale stopped by more sold lever	· Epperenti	4.6	
	thin, perhaps a tufa or communed layer	r Inducial		
	non e boulder). Leoughrine.	6	0.5	6.0

NH1/4NH1/4 sec. 7 (unsurveyed) T. 18 N., R. 31 E. Stratigraphic section, from dug pits in high-shore sand bar of first Fallon lake and 2-ft auger hole in flat TW. of Rainbow Mountain. Top of section 3,948 ±/ft altitude.

eologic mit	Rescription	Unit	Thickness (fest)	Depth (fest)				
01101 11.	Pebuly sand, mostly medium sand, fairly	(top)						
irst lake	clean, some small pebbles, gray plany tufa							
mit.								
and is a	like in unit 3 and of the local Terriery							
	volcanic rocks: mostly punice, some Regles							
	House rhyolite and Bunejug formation.							
	Leonstrine.	*	Ein	5.0-				
- 1	Madium sand, with rare pelbles, tan, gradi	ng.						
	domeand to fine-medium mend, mesul chem	,						
	rusty to golden brown, and then to clayey							
	fine-medium sand, olive ten, mear base. I	Ower						
	part contains some fragments of tufa, like in							
	unit 3. Highly saline, much gypsum							
	Lacustrine.	2	2.5-	4-5				
	Disconformity.							
inco file,	Litheid tufe, white to pale gray, disconti	TUDLE						
oper nbr	layer of irregular masses (early lithoid t	a die						
	of this thr.).	1.2.	0.0 3	4 72				
alor is	Silty clay, plive green; ame rele precise	h						
millit	gray interceds of silt and silty clay, pos	elbly						
or., bearing	eltered volcanic sen; some lenticular line	stone						
oyeh soil	partings generally less than 1/8 in. thic	k and						
(eroded)	several inches across; very saline; some soil-lime							
	concentration (eroded Cos horison of Toyell							
	Lacustrine.	1.	0 6	5.2				

31 (continued)

Geologic unit	Description	Unit 20.	Thickness (feet)	Depth (feet)
V. State of the st	One was the state of the state	(top)	CONTRACTOR OF THE PROPERTY OF	and the second second second
Sehoo in.,	Silty end silty sandy clay. Upper seve	1403		
Centritic	feet has some thin laminue of fine some	ā,		
and lower	abundant colites, estraceds, some prople	riy		
r.bre.	tufe modules. Some segregations of gyp	BUE		
	end/or other selines. Lacustrine.	5	7.5	12.54
Seisco III.,	Pavily sand and sandy gravel. Upper la	foot		
lower upr.	is intertedded clean medium sand and			
	fine-median cand with jewher to 1/2 in	. Alan		
	force brut to serich Extuer size erro be	diles		
	more than I in. diam., some gastropod si	1011		
	fragments. Hole bottomed on cobble or	coulder.		
	Lecustripe.	5	2.3	14.6

SEL/4 sec. 4, T. 18 H., R. 31 E. Stratigraphic section exposed in bank of wash in saddle between Stillwater Range and Rainbow Mountain. Top of section $1,040 \pm 10$ ft altitude.

Geologic mit	Fescription	Thickness (fet)	Depth (feet)
	Market Annual Charles and State and Annual A	(Dog)	CONTRACT DESCRIPTION OF STREET
Centritic mor.,	Fire-medium sand, light gray, with some small		
Localne	pebbles. Locustrine. Top 14 in. bears Toyen		
Toyeb soil.	soil.	AL TOTAL	Line
Sehoo fm.,	Fine gravel, well sorted, containing "heads"	,	
dendritie mbr.,	of Saudritic tulo in pipu. Leoustrine.	A.y	200 m
TRELEGRESSIVE	Million Control Control		6.203
color fa. Lover wive	Plas-Redim' sand, leanthlus.	0.04	
No.	Silty fine sand and fine-sandy silt, with pany		
	platy limestone and ostrucod-rich partings;		
	lecusorine.	3.52	5.60
leboo En.	Fire-sedius sond with some pebbles; sell sorted	ž.	1.9
lover mor., transgredsive phase.	Section and house it was the second and the second	293	The state of the s

sooft N. of SE consect (unsurveyed), D. 18 N., R. 31 E. Stratigraphic section exposed in wash bank, trenched, at edge of Stillwater Range. Top of section about 6,300 ft altitude.

lealogie unit	Bescriptica	Thichess (fest)	Tepth (feet)
Service of the servic		(top)	
Schoo fa.,	Soudy gravel (fine-medium sand motrix);		
lower mbs., regressive ranse	leoustrine.		£ .
Seleo in.,	Periole and cobble gravel, coated by cellular	-	
lover three ive mass.	tufo, lacustrine	3.54	2.5
C .	Fina-Rodium send, lacer and maser and. December	De 1-5+	1. 6
		4.00	
	Heconformity.		
remain and	Time-medium sand, pale yellow gray; collan;		
be aring Churchill coil (eroled)	somi-indurated by acti-lime.	4.90	Top .
Petro A.	Boulder gravel, lacartring.	i.	9-

Stratigraphic section at type locality of the denaritic member of the Sehoo formation. Sl/2 sec. 17, (unsurveyed) T. 18 N., R. 31 E. Cally beside road on E. side of Rainbow Mountain, several hundred feet S. of 4,160-ft benchmark. Exposed by several tranches, from top of high-shore bar of middle Sehoo lake, from bank of gully, and by pit dug into bed of gully. Top of section 4,175 ± 5 ft altitude.

Pologic mit	Description	Thickness (feet)	Depth (feet)				
Seinoo fa.,	Fine-gravelly sand and sand, well sorted; top	(top)	alian ata nua un alian anno angerita. Aliant				
dendritic mbr., bearing Moych soil.	14 inches shows complete profile of Toyen soil						
	(see soil profile section S-18-31-17-2)						
	lecustrine; high-shore bur deposit of middle						
	Sebec lake.	2.3	- 40				
sahoo fm.,	Medium sand, vell sorted, unconsolidated;						
over bbr.	lacustrine.	3.5	P.				
leboo fr., over mbr., renegrassive part.	Cobble graval; lacustrina.	0.5	10.5				
lyenshe in .	Sency fine gravel; somether elegan and mottled						
HETING Gurandia	red-crown and gray in upper foot toxide lordness						
The state of the s	of Churchill soil); pule reliew brown in ment foot						
	erd containing some thate soil-lite concretions and						
	compliage; belance is yellow-green, with some soil lime						
	(See nortees of Churchill soil) Wilwist greve	1. 3.8	March 1				
late in.	Mine gravel, well sorted, with a little						
	soil-line; lacustrine.	1.5	32.5				
)5.	Medium gravel, well sorved, with a little lake	ture					
	cementation; lacustrine; base not exporel.	3.5	16.3				

Soil-profile section at type profile of Toyeh soil. Location: About 300 ft E. of road on E. side of Rainbow Mountain, in El/2 sec. 17, T. 18 N., R. 31 E. Topographic position: Top of lake bar (highest shoreline of the middle Schoo lake). Slope: 1 percent. Erosion: Very slight. Exposure: Dug pit. Altitude: 4,176 ft. Parent material: Sand of the dendritic member of the Schoo formation. Overlying material: None. Vegetation: Greasewood and shadscale, about 6 ft spart; some Artenesia spinescens.

	Thickness (inches)	Soil horison	Description
-0.75 to	0.75	(leg gravel)	Fine gravel and loose sand.
			Abrupt, smooth boundary.
0-3	3	<u>A</u>	Pinkich gray (7.5 MR 7/2) very fire gravelly sendy
			losm; <u>structure</u> , vesicular, weakly platy;
			consistence, kerd, brittle, harsh, floury.
			Abrupt, smooth boundary.
3-7	Ĺ	7. F.	Light reddish brown (5 YR 6/3) gravelly sendy loss:
			structure, slightly columns to medium closely;
			consistence, hard, aligntly hursh. Some soft
			CaCh, segregation in lover part.
			Clour, miceta bolitary,
Tall.	T	Cas	Light red-brown (5 NR 6/3) gravelly sand;
			structure, weakly columns; consistence, frible.
			Slight TeCt, aceum Letica.
138-35	23	t	Finition-gray (3 % 6/8) gravelly each;
			structure, single-grain; consistence, locat

that the state of the

displynes of physical and chemical properties

(Sampling and analyses by M. M. Spainger, Edvision or solis, Corv. of Colon, Marketery distribution

Total of Edwards regards Colored		15	20	لا		BOLL	
To Additionable 1788 "Bay Pay" forms one of Basels	24-35	14.24	7-14	3-7	0-3	lepth inches	
Augus pages and an ingention distinct the school of the page of th	1.163	1.16	1.44	1.47	1.34	Apperent density	
	93.9	8	95.5	96.3	2.76	cont cont	3
The state of the s	8.9	9,0	8.9	8,8	8.8	F	
The state of the s	8.9 0.009	0.00	0.012	0.016	0.013	Troil.	Aleanad.
A Control of Control of Street, Street	8	Ö,	0,0	7.3	7.0	G/N	
Application of the same of the	CLI E. force	ن	D)	20	LO In	(wole	CO, from
And the same of th		50	10	in Co	S)		l l
the second second second		6	e.	is in	3	T C	recontag
to desire the contract of the state of	e serve amen'nte sen setter	30 U:	3	9.0		1000	For Ca
And the first of the separate of the property of		59.2	10 10	FI. 13	50.0	0.30	e size d m (organ
Complement of the part of the first feet and the first of the feet and		33.7	100	18.9	13:33	0.10.	Corticle ofse distribution of Cam (organic matter a
The state of the state of the state of the state of		5.5	o. he	0.7	Element of the second	0.005	ion
The state of the s		40	Property of the state of the st	24.6	in the second	(0.002	Reventege of Cam (organic metter and contention coll

2

Formiel stratigraphic section in lower part of the Erackse Cornection in guldion N. side of hill about 1/4 mile S. of Eagles House, in SE1/45%1/4 sec. 13, T. 18 K.; R. 30 E.; top of section starts about 1,750 ft due east of SW corner of sec. 13, at about 4,430 ft altitude.

Esscription	Unit no.	Thishese (feet)
Filicified tuffvariegated red, gray, buff, and white	3	10+
"wonderstone"); well bedded; poorly exposed, forms top of hill.		
Culitic Suffaceous sandstone, generally sandier than unit 3.	2	25+
Firk-gray to gray-pink. Bard, well to massively bedded, some		
beds ripple-marked. Together with colite below forms cliffs 20 to 30 ft high.		1 1 3
Politie lizambone with some interbedded twyscoous culearesus	3	50.0
conductors. Grey-puch to gray. Hard, will to massively bedded.		
Saffaceous sandstons. Pink, Light gray to ten-gray and greenish	5 5 6.	304
tan-grey. Typer 18 ft colitic and generally coleareous, well		
indurated. Lever 12 ft soft, though generally somewhat better		
induzated than some 7 below.		
Interbetibed material like somes 6 and 7.	E 3.	6
Clay, some soft siltstone; grayish light red; semi-indurated,	5	
Thirly bolded.		
Cuinececus sendatone, sono, semi-indusabed; nedium-grained	7 .	
tand with wilty medula; probably large persentage of silicit		
with. Hartly pale well aspecially upper year, sith bracks green		
proint. Sell bedded. Some silty and cityer beds, especially in		
Lover part, where help beds are grep and greatifd gray.		
Bense fine-grained linertone. Light ten-gray.	8	1/6 2 12
Clay, buil-yallow (base not emposed)	9	34
(Fault cuts off section at best.)		
Armonine total	รักร์ ค์เทอร	In S

Strategraphic section at type locality for Churchill soil (see also soil profile section 34(S)), and also for lower members of the Sehoo and Indian Takes formations. Imposed in east bank of wash on west side of Churchill Valley, 75 ft S. of small basalt hill in middle of valley, SEI/4SWI/4 sec. 15, T. 18 N., R. 30 B. Top of section $4,190 \pm 10$ ft altitude.

Seclogic unit	Bescription	Thiches (feet)	ler in (feel)
		(top)	
lover ebr.	Medium send and fine send, limy, very pale	Ť	d.f.
of Sehoo im.,	yellowish gray; some small pubbles; abundant small	1	
earing	small shalls (Ferapholys nevadensis); et hase s		
byeb soil.	ier beals of "corelline" twin (grew upward in the	-	
	sand from bases ettached to coubles or pabbles in		
	greened bed below) - Lorentries - Top & 12 . is		
	really cemented by GeCC, (Gos borison of loyel		
	soil, slightly eroded). (About 250 ft to south t	26	
	sand contains dendritic tufa heeds of dendritic r	22 so	
,	of Schoo in., but the high shore of the deporition		
	Seloo leke is not clearly marked.)		
	Cobble and peoble gravel with sandy matrix; limy;	2	6
	thin line contings on roundstones, and uppermost	7.0	
	combles and pabbles have thin, discomminuous		
insec.	contings of coralline tufe. Roundstance are all		
	brush or Imajus in this whicher to 5 St thic	1 -	
	30 % to more and hear orminal a name and land		
15	Medium scul very pule groy (1/256/2 to 1/257/1);	did to the state of the state o	35
	very clean, almost no pebbles or allo; very		
	incoherant, except somewhat lime-cenemted in top		
	1 to 1 1/2 St. Probably lacustries.		
redien lakes	Medium sond with some pubbles and cobbles; light	2.5	18 3
in. lower	ten-gray; elightly indurated; probably elluviel.		
nor.			
შა.	Medium sand with some yeables and cobbles,	1.5	50
	plotomebon ;mat-volley trightd ;esed on vilaisegas	•	
	coherent; some week lime concentrations. Alluvia	<u>.</u>	
	Thickens to 5 ft thick 30 ft to south. Sharp cor	stact,	
	dips about 10° southward: slight disconformity.		
	108		

165

Geologic unit	Description	Friciness (feat)	Pepth (feet)
Tyandie fe.,	Medium cand, with a few pebbles, cobbles, and	16	40
teering	angular rock fragments in upgermost 1 ft. Grains		
Churchill.	mostly frosted. Eclion. Top 4: ft bears the		
roil.	Churchill soil, which is exceptionally well		
*	preserved here (see soil profile 343). Upper		
	few feet of the sand are partly indusated by the		
	soil development, lower part of the sand is		
	unconsclidated. Mostly parallel bedded, dipping		
	several degrees southward; locally crossicaded.		
	Pase of sand not expense here, but about 60 ft		
	to north it overlies boulder gravel of the Betze		
	formation.		

Type locality of Churchill soil (exampled and described by M. E. Springer and R. B. Morrison). Location: Fast bank of wash gully on west side of Churchill Valley, SMI/4SWI/4 sec. 15, T. 18 N., R. 30 E. Exposure position: Steep bank of small mountain wash. Exposure: Vertical channel dug into bank. Altitude: 190 ft. Parent material: Holian sand of the Wyemsha formation. Overlying material: Churchill soil is buried under 15 to 20 ft of sand and gravel of the Indian lakes and Sahoo formations (see stratigraphic section 18-30-15-20).

lepta incres	Taiches)	Soil Boriz	on Description
-4-6	10	Ba	Light brown (7.5YE6/3) medium sand with sparse rock
		-	fragments; structure, very coarse sugular blocky;
			consistence, hard
			Clear, menoth boundary.
5-12	6	15	light brown (T. 9126/3) and one east with a few waits line
		**	concretions; structure, classt massive.
			Clear smooth boundary.
12-92	c3	Can	Very pale brown (10187/3) medium sand with white line
			streaks, "concretions", and irregular concentrations;
			structure, structureless, massive to single-grain;
			consistence, very hard to loose. Lime consectration
			decreases somewhere inregularly from top to herical upper
			2 ft have numbers to comma line strucks, concretions,
			ett., and are massive and locally almost consuled. and
			very here to here; remaining of this mess has some to lev
			Line comerciations is single-grain and eligibly burd to
			locat, entert for a 1/8 in. to 1 in white CeSC3
			occurred layer on 49-50 and depth.
			Diffuse boundary.
92-112	20	2	Light gray medium saud (10087/2) with sparse white
			lime streets and concretions; structure, single-grain;
			Consistence, loose.

Soil-profile 34 (S) chemical and invaind properties.

(Charchill sold at the type recently)

(Sampling and analyses by M. E. Springer, University of California, Berkeley, Calif.

to the section of the section of		en - 92	62 - 80	50 - 62	36 - 40	24 - 36	16 - 24	12 - 18	्र स	0 1		Pepth	
1 c y y		1.55	7.19	2,56	T-56	1.53	7.17	1.45	1.50	1.69	er inneg i temperaturite	Apparent Density	allerin og enge et der freihe framstyr er enne
2,0000		0.00	99.0	99.9	4.66	98.3	96.9	97.8	97.8	98.6		For-	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \))	9.0	8.8	8,9	9.1	9.1	8.9	8.9	8.6	8.6	en de Carreiro Aparica	IIg	aryangan pengangan di Amerikan di Si
The Management of the Angelines of the State		0.002	200,0	0.002	0.002	0.50%	0.005	0.005	0,009	0.012		(Whole Soil)	Percent
The state of the s			-			and anything the street with	8.8	5	5.7	9.6		N/O	
Co 3	>	0.2	T,0	0.1	o iu	gamaga gapan da Para Angala	ω .5	9,0	F	0.3		(Whole Soil)	Con from
The state of the s	er yagan sudin	riginisi a aming rigin and and and anima	hardere delle liberte de	general de COP formation de la company de la		C See	erican adamentari ministra	0,0	0.5	0.9		17.0°	Servenca
		and a series of the series of	group that all the state of the	en e	and any source and a	5.		0	30.9	3. 5	43.50	1.0.5 0.5	
The state of the s	TO THE PERSON NAMED IN	anga attir photosettapheti	and the second		CONTRACT CONTRACTOR	ic.	100 g - 200 r 200 Miles 17	(L)	Property of the second	5	1 mg	0.35	STON TOTAL
The second secon		ghyre, Spill of Biological States				#2.0		35.0	37.6	44.0	6-77	0.25-	forticle size distribution
	nrame ne		and			C iv		9.3	20.9	12.3	-	9.05 0.10	ter and
The state of the s		ger det gekendelsen.	anggagini, State L. Nava			3.0		-	50	10.0	0 51	0.09	of them (Organic metter and combonate free soil)
	er Betha	and and manifestation	NOTES AND LONG OF		2	3.7	- Bay Styreghile	7.6	15.3	7.8	0.5	\$0.002	E Ci

NEL/4 sec. 17, T. 18 N., R. 30 E. Stratigraphic section exposed in bank of drainage canal, and 5-ft auger hole, in flat near former course of Stillwater Slough. Top of section 3,924 ± 3 ft altitude.

Geologic wait	Description	unit no.	Thickness (feet)	Perca (fost)
Fallon in.,	Fine-medium send, light ten-gray, uncomented,	(Top)		
second leke unit.	clean parallel-bedded, lacustrine.	1	2	2
Faller fm.,	Clay, silty and sandy, brown, many stell			
first lake	shells. Lecustrine.	2	0.9	2.
	Fine sule, gray, some small-shall frequents;			
	lacustrine; weak CaCO, cementation (probably			
	soil lime).	3	0.5	3.4
Do.	Fine-medium sand, brown. Lacustrine.	11	8.0	4.6
Turupah fra.,	Fine cand, eclien, somewhat CaCO, cemented,			
Coyel soil.	especially in lower foot (Cos horison of			
	Toyen soil).	5	2	5.2
P.O :	Sand, fine and fine-medium relatively			
	uncerented. Eslien.	6	0.9	PAGE V
	Discomformity.			
Seioo 2 ·	Cley, known, many sucile lease with	7	0.5	401
wear and and the second	Disconformity.			
Sehoo fil.,	Clay, greenish-gray; top several feet darker			
žendritic ubr.	and more or less carbonaceous. Lacustrine.	8	6.3	13.6
Sehoo far:	Lean clay, rust-colored, and with light gray			4
thinolite mbr.	limy segregations; lacustrins.	9	0.3	1.70.

35 (continued)

Geologie unit	Description	Unit	Thickness (feet)	Depth (feet)
		(Top)		
Sehoo fu.,	Lean clay, greenish gray, with small crystals			
thinolite	and crystal aggregates of thinolite and small			4
abr.	rounded tufs notules; some ostraccé coquina			
	partings, commonly showing musty staining.			
	lacustrine.	10	0.5	11.7
Schoo M.,	Cley, clive-green grey; locustrine.	7 73	الم المراجع ا	16,7
levet libr.				
	(Baro had the chea)			

1524 program 36 (8) characters are as a second service.

(Analyzed by Br. M. E. Springer, Division of Bolls, University or California, Berkeley.)

		(oxdde)	(vesicular)	3-	Northon
ti	7-13	3-7	1-3	0-1	Deyth Inches
	1.58	1.51	1.45	1,51	Apparent density
57.5	95.7	99.6	94.9	91.1	Parcent Can
0	9.0	3.5	9	9.6	IId
0.005	0.006	0,006	0.006	0.006	Parcent W (whole
	6.9	6.9	6.0		C/N
Carlo	200	8.9 0.3	C	0.4	CO, from
Ĉ		14	to the state of th	n regionale de grande de la companya	1 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Commission of the Commission o	20.4	18.2		The second second	oztege
5	15.0	20.2	7.0		Partici of 42 m 0.5- 0.25
T3.4 T6:3	22.7	26.1	Cir.	a managaga para ya Jane Timo	0.10 0.25:0 0.28;0
C	5	76.3	2		Particle size distribution of 22 mm (soil free of organics on 0.5 0.05 0.0 0.0 0.0 0.0 0.0 0.0
U =	3.6	6.9	ص ن	- Marine and the second	button of organic falt end carbonate 0.05- 0.002 0.00
(w)	Oi Vi	9.2	50.2	and and an analysis of the second	Paradetage of 42 mm (soil free of organic mare a but on the mare a but of the mare a but on the mare a but of the mare a

The same of

Total Control

36 (S)

Type soil-profile section of the "L" Brain soil. Location: Northwestern part of Navair Flat, NEL/4 sec. 16, T. 18 N., R. 29 E. Topographic position: Hearly level plain. Hippsure: Dug pit. Erosion: none. Altitude: 3,939 ± 3 ft.

Parent naterial: Alluvial sand occard with the first lake unit of the Fallon formation. Overlying material: 1 1/2 in. of colion sand of the upper mbr. of Fallon formation.

	Miches)		Beschivilon
-1.5- 0	1.5		Sand, single-grain, loose (overlying material).
0-2	1	ž.	Hrown (7.5185/2) sendy loca; structure. Well
2003	2.	Į.	Rooms (7.5155/2) sendy lotte; shructure, weak granular; consistence, frieble, slightly bard. Abrupt, smooth boundary.
3-7	Ł;	B	Brown (7.5%)2) longy send; structure, very weak granular; consistence, slightly hard.
)-13	9	Ceci?	Brown (7.5015/2) send; structure, very weak

Fast edge of sec. 17, T. 18 N., N. 29 E. Carson River floodplain. Statigraphic section exposed in drainage canal bank, and sugar hole in canal (lower 3 ft of section). Top of section 3,944 ft altitude.

Geologic unit	Description	tait no.	Pricess (feet)	DS: 33 (£ 5:)
Fallon file,	Fire-medium send grading downward	2	2.2	3.4
first	to fine sand; light ton-gray; well			
leke unit	indurated. Lacustrine.			
	Sharp contact.			
Do.	Clay, brown, with rust-colored (iron) and black (carbonaceous) stains.	2	2.2	4.5
Do. er	Coarse sand, with some granules	3	1.0	5.3
Turupsh in.	(of quarte, baselt, and other			
	volcanic rocks, subsounded), clean.			
	Alluvial or lacustrine.			
•	Bisconfermity			
Sehoo fa.,	Cley, brown, sendy; nedium to	4.3	I.C.	5.3
upper rbs.	fine-seed grains of quarts and			
	volennie recks. Lacustrine.			
FAD :	Fine soud, close, dest grapish	3	5.5	5 2
	rellow-brown, allumial or			
	Suppose of the contract of the			3
Do.	Medium end coarse stad, lecustrice.	Ć.	all frame	1.10

TREAL/A sec. 23, P. 18 F., R. 27 B. Rège of small plays; elvitude 3,975 of, 19th water text barehole, no. 34 in Stabler (1904) cope; water level 19 ft below curface in 1904.

Seologie	energe, an exercise removement und cue exercise describeration, mor ou about ne consideration exercise	er egynelenen er sommate fremanstrukt an eine auf er an eine auf er en eine er eine er eine er eine er eine er De eine er ein	Control of the contro
reactive great the wage register have a make in the party constitution of which is reliable.	SUCCESCOTORISMENTALAND SIGNASCON MICHORIC SIGNASCON TO ARRIVE SIGNASCON TO THE SIGNASCON TO THE CONTRACTOR SIGNASCON TO THE SIGNASCO	g drysemit, day day the house the second	
falian in (top for	"wordened lineith"	5 5	5.5
or so) and kremeine			
Symple in	Sond	2	
20	Spanish border	4	· · · · · · · · · · · · · · · · · · ·
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And C	The state of the s	3.5	who and t
Fra, c	Service	8	20.0
		in in	
To.	Mark emic	0.5	57 7
120.	See A	£.7	Co.
The state of the s			

ME con see. 20, F. lo B., B. 25 E. Top of section 3,900 ft altitude.

Oberon River fleedglein. Finitigraphic rection empseed in Grainage consil book,

5.5 ft anger hole.

			STATE OF STA	
Fillon Line	Cours, medium, exé fire esté, mederately	3	2.5	60 C.
Min in	small to possily sombad. It fak tost-gray to			
unit	locally daily gray; morely rather lendsouler			
	parallel-baided, but sear small-scale,			
	erestivedding meen bese. Leonotwine.			
	There cause at a university at any of conservation	w. T.		
Ī¢.	The sout out very when not i, writing	8	De 25	
	COMMENCE OF SAME OF STATE SAME SAME WAS A POPULAR			
	cua granma, ?, segrega cuche; iron atains; no			
	hars 1-in. of malica scale very tark grey.			
	Iceurdrine,			
Do.	First and alleg demonstrated, governal	3	677 m. 6	. A.
	Bedfall At Gog, C.F. is silty count to			
	five acts, poster sould reciting ange than			
	ay in the man with the jet in.			
	ideo-gedier was, eres, lacen, time			
	hy dr. blu -g.es is land bee mor sikt.			
	med allow dirt. Augus out couldness counting			
	arrent regularista a lingua is in delication			
	Commence and the second of the			

Shorp control, parchies river tase riburate

Geologia wit		thic no.	înicîmess (2est)	Jenta (feet)
Con fo.,	Silk frem line confy silt to pliquin			3.54
first lebo	elayer ofit; top 0 3-0.5 th dama grow			963
mit	to meanly black, due to contamodesus switter,			
	and senty; remainder ton-gray and better			
	served; come interbods of fine cand in lover			
	pest. A for gypour segregations, from steins	Δ		
_ *	Conservations of			
	Spary contock, possible disconfountly.			
Maring Ca L	Course sand, madium can't local heres	47	ATT TO	33
	of thee-policy economics of the sure, eleca-			
	wisempored (loops); relation somely we			
	one-half inch diameter, reguloni durens libre	3		
	essentings). Top 3 in. lecally well-comente			
	Allevies (Careon Miver channel send).			
	Herry contact, disconfounity.			
30 PO 1210	Twey-bucks footy" clay, estimot;	6	A Property of the	264
iner sai.	dres rights some environments			
	softer black stells/ .newstalk			
So.	The cont, decr. september, less who	15	€.**	20 %
71 Fine	Elicanios, circu grandum.	3	18 T	15 "-
	of the second second			
Plo .	Set 5 Seen the second of	ō.	3./3	

N. sign of sec. 20, E. 18 M., M. 29 N. Green Hiver flecipicis.

Septiagraphic service exposes in Americans send bank, and J-St auger hale.

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arold late	Lecentrine.			
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	station, see gymnes in the equipment			
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	City, very took brown (scorky	23		
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	terms we merium configuration.	5	g.	
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	short the code of the color - be on			
	collected fally and the difference			
	The later will be the terminal as			
	man The Later of the			

SWI/# sec. 23, T. 18 A., R. 29 B. U. S. Haval Auxilliary Air Stadion.
3,9252 It altitude. Driller's log of bost wall for unter; owner, U. S. Dept.
Wavy, well completed Feb. 1944.

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able di	Stor eleg	36	25
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00.	From clay	3-3	*****
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-a.	Corp elor		41.00
ito s		5.8	
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16 .	Fire cond	57) 108	2367
le.	Gran clay	72	e garden

38 (L) (continued)

Commence of the second of the	Exactly tion	Balckness (feet)	
So.	Sangr Brog. of the	27	327
30.	George Elect	3	253
Ero :	South garge elogy	32	
and the second	Geographic	The grand of the state of the grand of the grand of the state of the s	2
1.2.	Sandstone	1	
	Care cycl	27	1.01
5 40 .	Solv Sach gree	ò	22
2.2 e	Ind green not need	2	4.0
The contract of	entir grant clay	32	
To.	Ever cler	$\tilde{\mathcal{E}}_{\mathcal{F}}$	Established
50.	Gray clay, श्लान १९वरी व्यवस्थात	22	77 B
1	Continue market in the	7700 SASE	

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Shoot of Midden bette, on S. ship of head handlesh, INL, wee. 21, S. lo S., R. 30 S. Sermigraphie section apposed in work wall of pit Ho (dug in 1951 by Date. of California-V. S. Sechagisal Survey exchaeologic field yearty).

of restion 4.105 ft altitude.

Reologie	empropriesser yn eine een negemenn meest hie en eeste er aan een am een aan een aan een aan een aan een een	104.2	The second secon
Teller In.	- Ballo eero very tale end tare eerog	*	6.7 0.7
dik Detalarson)	light gray: collar. Sparse politic-sise		
upper mix.	cugaler insquerie of red baselt and twis.		
	probably roof frequents. Well bedded, beds		
	thin end persilel. Somewhet echerent,		*
	tends to four self blocky frequents.		
	Miletrons remarked morificate, for to		
	September of as impopulate markets		
	claying alightly newton investor of		
	cave, top sumbne onkomming was classed		
Fellon 35.	"Top midden" was one has guanc, with	2	O. S. Janes - W.
(correlated with	ebundant ligheites (convill) lacret, send		
a len mit.	alan della, r tur i milita, bol tavalidi.		
	(exhibition) Tests computation Schreie.		
	form 13 process of the state state. Tened		
	ivon the come in 1950, who some this belo		
The same of the same of	Size said floe party that I product this	***	
	the property would be a control of the		
	that to L. Real and J. solding, CA to		
Andrew to a	OF M. TERRORISE FOR LABOR CO.		
	Rotter ecortsid said city (colins)		
	layer about 0.2 St St. tt. tilff.e of		
	wait, with deal boom recaring and local		
	midden portung of top. Very for artiforte		

of lovelost liters.

Clogic	Description	Unit	Enickness (feet)	Repth (fest)
Fallon fla.,	Silt and fine sand, probably collan;	4	0.2+	1.94
(correlated with lst interlake unit).	well bedded, bedding thin and parallel.			
				-
Fallon fa., correlated with	"32-inch midden". One or more midden	5	1 14	3.0
1st lake unit.	layers, interstratified with silt and			
	fine eard (eolian?) and with rocky silt			
	(slopevash) layers. Continuous mičden			
	0.2:0.15 % thick at top; several			
	discontinuous local midden pertings			
	below. Midden conclute of rothed bat guano,			
	plant matter (tule, came, cattail, etc.),			
	rumerous Lovelock Finnes extifacts.			
Turupah fm.	Loss, silt and fine send, pale groy, evenly	6	1.7:	4.73
	and horizoutally bedded (colien), with			
•	local lenticular layous of gravelly silt			
	(clopewask); latter increase in proportion			
	teward cave pertal; 3/4 in. midden parting			
	in middle. Unit thishons to now than 3 2t			
	in east well of gut and here contains a whit	65		
	puriescus ash particl. 1/4 to 1/2-iz. thich,			
	per esci leches eleve bost. The obsidies			
	points obtained from types part of unit.			
· · · · · · · · · · · · · · · · · · ·	Course to hime gravel, poorly souled,	7	C . S	- 1032 - 1032
(late Seloo correlative).	Erek interstitial some and silt, many			
	blocks and boulders, acre 1.5 ft dism.			
	Slopevash. Thickens to more the 1 ft in			
	east wall of pit. Local discontinuous retis	đ		
	guero partings. Rumarous bones of small			
	manuals and birds, and A projectile points			
	(Eidden Cave Phase of Grossoup, 1936).			

Clogic unit	en programme de la companya de la c La companya de la companya del companya de la companya del companya de la companya del companya de la companya del companya de la compa	Valt no.	Thickness (fleet)	Cayen (seat)
Sehoo En.,	Very fine yebble gravel (lacustrine);	8	0.1	5.1
dendritte mbr.	wall seried (little interstitiel sand			
regressive	or silk), undepended. Thickens to about			
phase).	1/2 ft at each well of pit, and here is			
	underlain by 0.6 ft of lake sand. Eafren			
	of artifacts.			
Para S		.*	ph. or	(a)
Select English	At top, 1/2 ft of marries lecustries	9	F . 7	(-
derdriche mer.	limerican, white; and the upper surface,			
	dips encount 15° as dimensing to long			
	then 5° at east wall of pit. Heli			
	bedded, beds show I in thick, thinning			*
	to osstusia, numerous fish tones. In			
	lower neveral inches which bedded brown lo			
4	eley altermates with partings of white, set	E-		
	lacustrine limestone, this yart transs			
	isoruseingly elepsy anomark. Bures of			
	620 V. S. C.			
Indian Later	Convee growell way proving corted,	Ž.	The state of	6
Mr. , middie	equivelency enguism in the side of a beauthors			
Tito:	ca satur to AC AL but needing less than			
	é in ling, rive para interestivial.			
	and call the range of Misseres wet.			
	Slopework Barron of Erolforts. Wellet			
	a block of collabor twos. Thins rapidly			
	costrard to 0-0.1 ft thick at east wall		4	
	రివే స్టాన్స్			
Salco da.,	Febbly laby pend, close, uncessoried.		0.1.	F
lover EDI.	Fe o relicate.			
regressive				
These).				

39 (continued)

Geologie univ	Description	met m.	Tacchicae (feet)	
Selico fit.,	Iske clay, cilt and silty fine cand. Nov	12	203	9.7
lower mbr.	third is faintly lesisated brown eleg; said	üe		7
(high-level	third is brown silt; lover third, brown all	it.		
phase).	fine send. Clay is slightly gypsiferous.			
	Rearly welform in thickness over pit floor,			
	but dips several degracs wastward. Upper			
	ensience proken by deep gaping orecas,			
	gradebly desinctation extake, and there are			
	Slied by gravelly seed from bed li. A bir	ic.		
	Bone was found in one of the creeks.			
Seince fin.,	Rebble and cobble labo graval. Roundstones	2.3	3.4	2.07
lower time.	locally derived, mainly of red volcanic			
(brensgreasive	breecis and black andershe similar to that			
phese).	in walls of Ridden for out amposed in sloy	raz:		
	there Min care. Unsanglist. Errs not some	act.		

SEL/48M1/4 sec. 21, T. 18 M., R. 30 B. Stratigreghic section exposed in bank at head of main guich in Hotza Mountain, cart of Didden Gove. Nop of section, 4,224 ft altitude, is crast of a Lake Lebontan bar built scrops divide between bedrock ridges to the east and west.

Geologie unit	Describios	Call		
Seloo fi.	Coarse gravel, fairly clean, mostly pobbles	**	3 5 7	
lower rist.	end cobbles of Eunejeg Ma.; also some			
regressive	cellular bufa; some have waterworn contings			
phose, bearing	of Asthold vala (were each from which 3).			
Toyah coll.	Isomorpha, Pop 1-1 2/2 in books expels sell.			
Selico 21.	Constitute with the same accordance angles.	٤	A Land	L se ses
lover mur.,	Lectotrias			
oviceorganst.				
phase.				
Selvoo fu.,	Cosmen gravel, many collèles to il im. diem.	3		
low Eight	noted of ladely tillectived residences			
Start Care E 175	cested and computed with lithers tufa, eryon	a promise of		
phase	in upper justs. Duestrie into Daily this.			
	solicit conspansions, team cares of per-			
100.	A CONTROL TIME OF THE LAND (SO TO	2	2	2-2
	of this production is			
E.		3		3 6
	in It will country our not very tile			
	Cleandings white one which may be			
	secondery. Isomorico.			
30.	Islia grand with our comber grant,	2	500	
	errored). Lecuritalia			

40 (continued)

CELC		Dist ro.	TELSTESS (2001)	95012 (1.60)
Be.	Deliger gravel, many toulders more than	7	0.	16 1/24
	l st dien. Lecustrino.		*****	
lo.	Smit the fine grown, roll-establed by	8	and the	
	lithoid tufa. Icoustrine.			
Io.	Course and mediem gravel, interpedded	9	5	8
	Correc leguer combula collier and amail			
	Sociales to elect I is dien some Richard			
	trib commings on requirefulner, her			
	evidently resolved in that their in that			
	Improvince:			
is.	Medium grerel, sandy, especially in lower	20	3	and Bergy
	part. Isoastaine.			
	18 to a construction to be a			
Wester Die	Fine-modius and modify same, pole	3.2	104	6
- C	rellongeup coller. Unridersil ode.			
Churchill coll	comentection in upper pro- (the horizon of			
arolok,	Churchill soll. Learn sing John and to			
	Elifabi lenel seconievico pare bebrose			
	GAS, generally forest their distributes			
	in this is the second of the contract of the c			
	name ordination bedien A 3 to I to iz			
	diam. Appendently the Apatered except form	STORY THE SA		
	rents). Else not el trail.			

Mote: Several unity range considerably in thickness within each direction. the thicknesses eited and exercises in the line of section. The convert below a the Wyersha for and graval of the Setue in the well apposed in several continuous tributery galabon within a quarrent of a tule on the construct.

40a

SER/4 sec. 21, T. 18 H., R. 30 H. Stratigraphic section exposed in bank of small gully at SM side of smidle at M. and of Sysmena Valley (figs. 5 and 7). Top of section about 3,995 ft altitude. Lower 2 ft is dug pit.

Geologic unit	December	in directs	
Seiso fr.	Seattering of triter-rounded pebblos and	0.2-	0
mer.	cebbles. Lecustrine		
Do.	Very fine gravel and grit camental by lithold turns	2.2	2 :
	top several inches most densely escented, verthers		
	into almos; peobles mostly lose toom line; many		
	demonitio tura fragments; perallen-ledded. Lacusto	PIT.	
	Discorformity(1)		
Do.	Madium gravel, publies mostly under 1 1/2 in.,	1.0	3.44
	revely over 2 in., some demonstratio tura frequents,		
	vere "empharatone"; locally croschedded. Locustrin		
3100	le film sand with a fer yearies in top & in, grit	2.0	1,00
	(vall seried) in lower & in. Non-your Senfiritio		
	tule "best" Z in. O. ; in. firm - commonly		
	· slightly weder-room ideasonla	*	
7 C. 4		5,5	¥. ,
10.	Table residuated produces of this coul, also	4.5	\$
	come activated-rich periodes. Les activates.		
	Small discomformity()		

Ceologic unit	Secritica	Thidmese feet	Septh (fact)
Sehoo fu Sendritic	Silt, tan-gray, with thin beds of catraced-rich time sand and silty clay; same lime nodules in upper 4 in. to 6 in. licustrine.	0.55	200 mg/s
Syen of	Silty clay, tan-grey, to line notales. Leaustrine.	2.25	8 +
Sehoo fa., chinclite sbr.(?)	Alversating silty clay, silt, and fine cand; some live notwies, commonly expatalline and recombling thinolite. Lacustrine	0.5	6.3
•	Fire sand and fine sandy silt, thin partings of silty elsy and silt; estraceds. Top half has crystalline line notices (having sharp terminated crystals, resembling thinclite, though forms generally are obscure). No line notices in lower balf. Laguatrins.	C.B	C - 4.
setion file.	Fine soud and fine-modern soud, vall correct, with source grate and publics in lower part. Increasing.	2.5	es es
30 c	Course, establis grave a commission, but sub-super-		

SEL/4 sec. 21, T. 16 N. R. 30 E. Surralgraphic section exposed in bank of gully at SI side of saidle at W. and of Tremann Valley. Top of section stout 3,595 ft altitude. Lower 2 ft is day pit.

38010670	The state of the s				
Sehoo im.,	Van Sine growel, well corred, litherdatuse.	20-	i.	To Service	
dendriti	cenental: top several under tentaly ownered;				
132° e	weathers to slais. Leonsteine.				
	Sisconformity regressing subscribt empares				
Serve L	Him eler, greiting a mile storm only one time	2 0	5	it.	
Leave Control	cant in lovey part. Lim totalet and plater				
mirt., Terring	lies partings local test of and seat base,				
incipient	inusy-drystalline told nodules at base (no definite				
(unamed.)	thinglite seen, however). Lacustrias Top deveral				
8011	inches are weathered and show incopient soil				
	developments-clay is elected, and med money red-use	Mal.			
•	and has ense which a s. Him some ware let.				
Soites 1211;	Grindy Sine grands of a content resemble? File	-			
leres alv.	signification and principle and the property				
Io	And the number of the second of the grain of fam.	2.7	m	2	
	genila same de internet				
Lo.	Desires colline of the Land Constraint Similar			7	
	sat dud.				

ble.

SEL/4 sec. 21, 2. 18 N., N. 30 2. Swrettgraphic section exposed in back of section exposed in back of section section of the section valley (figs. 5 and 7).

Top of section about 4,001 ft.

Jeologia umit	Despring to	Midhes (Accol	D(A)
Schoo fa.	Pebbly medium some, are a compe nearly vey ly fo	3-1	P1)
idendriva Labr., besving Toyen soit.	partly inducated by Torel soil. Moretains.		
Sehoo 75.	Very fine gravel, don sour ceneared by Luthoid bufe;	2.7	•
lieniminis Judos	galicher og hat for 25 or 30. Leaderbrine		
	The grant of the second		
Seinos fi.	Fine same out very fine some that kens alightly		1.
iower nitr	coupling 1/2 to 1 in parting of plany lineaucon		
	sad limestone modules es bens. Lemastrine		
and a		-	
Port s	Charge sills and silter where tory they while .	Section 1	4
	invibile of settles a settle engle oligion lower		
Ve.	elegan elle med elegan lage, benedlegg communits.	7 -	
	Liberatur sugger zu. der die Ford 7,16 fa		,
	Dates and complete of Mag Quit in Table		
	This run, when to a that we are the same	Lett	5
	and a second capture of:		
Me.	Paralle Mark Cont. (1.1. Proping)	1.5	
10.	ರಿಷಣಿಸುವ ಫ್ರಾಕ್ಸ್ ಕಾರ್ಟ್ಸ್ (ಸರ್ಕಾರಿಸುವುದ ಅರ್ಜ ಅಪ್ರಾರಕಾರಿ)	- P	

SEL/O cos. 21, F. 15 N., B. 30 H. Strathgraphic section emposed in Lamb of large guily at St side of anidle et H. and of tyranda Valley (figs. 5 and T). Type area of hysnaha and Sahoo ans. Not of section about 4,012 ft eltitude.

Geologic Wilt	. Recardance	1911 1911 622 1921 (1)	
Sehoo in., Sendritic mbr., bearing	Gravel. Hedium gravel in top 1 ft and bottom 1 ft.	F 7	7
	reseinder is griv, very well sorted, with some		
Toyah soil.	small peobles. Hony wordsmore in agreemes of demont	iic	
	tula. Lauretrine. Top Ly 21 beers foyels soll.		
3			
Seboo fie.	Ciercy silv sad silv. very lary. The egyptic	4.7	F- 23
lower Min.,	westhered (incipient coll Coval., communic croded)		
incipien	Hoinly silt in lever part. Limertone parting at		
(unnemed) noil (emded)	base. Leaustrine.		
Seboo fil.,	Very Sipe and one fire core, with some ways Sine	0 10	9 152
	ಕರ್ಮಕ್ರೇ ಕಲಿಸಿಕ ಮೇ ಕ್ಷಾರೆಟಿಕ್ಕಿ ಸಂಕರ್ಣಕ್ಕೆ ನಿರ್ವಾಧಿಸವಾ -		
Te.	Remarks to Later state. In this case	6. 2	
Dr.	lean prive est all on souls leaventes.	2.7	ener .
A Control of	Escause of the last		
France	Times, since sad podine cond, soit polito-gran		4
Churchill	sauvilai mostiniist. Palint, Palin izimetei,		
soil (eroled).	while immegalaries the counciled while collector		
\$ *	convertablisms, company there be liding, joints, wh	4 5	
	(whotes the herizon of Correllia coll). Take not		
7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	especial.		

SEL/4 sec. 21, 5. 18 E., R. 30 E. Stratigrophic section exposed in bank of large gully at 5% side of saddle at N. and of Nyamaha Valley (figs. 5 and 7). Type area for Nyamaha and Sekoo fms. Top of section about 4,015 ft altitude.

(Seigh)	December 1	Thickness (feet)	Decide 1	where
Min Line	Grit with coall publics; very thin coatings of	2.5	6.5	
dendrithe war. Dearing	lithoid tufa on publics in top 1 to 2-in. Unusual	£y.		
Toyen soil.	abundant entergorm fragments of plays lacustrine			
	limestone. Legistrine. Top ly ft beers Toyoh soil.			
Seize E.	Crist come with varying enemals of modius and fine	2.3	4) 4	
daniminie	granul, note lepter coolin gravel, undergradel,			
	many waterworm fragments of dendritte train.	*		
	Lacutriae.			
Do.	Fine sand, rare pebbles, with desiritie tufa	0.45	5.83	
	honds (neveral in dist.) in pith of home.			
	Generalie.			
10. ?)	Shift soully still, some charge calls rear lawy and	# 1 m	7	
	new play limeton puringly appointly so top			
	and botten. Leastwill .			
	The contract the			
Adda a	and a top work greenwally has a sympother to	2 104	\$1 F2	
loset Bit	3-in- dirac, many frequence or plany limethers,			
	ond a few "mod-bolle" of sandy clim; 4 in. close.			
	medium name at base. Locally the shole anit is			
	estively clear preise conducts ortracti-rich			
	laren lecuristre.			

(Seminaria)

-Geologie <u>unit</u>	Pesantyman	Michaes (fort)	Popula (Cock)	
-Seico in.,	Madium sond with some problem 1/8 in. to 1 in.	7.6	\$ 74	
loter mbr.	Josepha de la companya del companya del companya de la companya de			
=.				
District	Medium gravel, sordy, with cobbles to 4 in. diem.	2.5	22 - 0	
	at base. Lacustrine.			
4	Edsawzforraty.			
Throught City	Figure and the confirmation of the confirmatio	J. 5	2	
focuing Churchill seil	Malica. Sami-information by Con Legious of Churchil	wy Signature Sig		
(eroded).	soil (eroded). Rase not emposed.			

SEL/4 sec. 21, T. 18 H., R. 30 H. Stratigraphic section exposed in bank of large gully at SV side of saddle at V. end of Ry-Tibs Valley (figs. 5 and 7).

Type area for Nyemaka and Sehoo fins. Top of section shout 4,025 ft altitude.

Gasiogic unit	· Description	Emichness (Seet)	Britale (Everti)
Selico din.	Grit and very fine gravel, sandy near base, many	5.5	6.3
dendrivie nor.,	water-wore fragments of designitie tofa, some		
bearing Toyah soll.	"wonderstone" pebbles. Lacustrian. Top 14 in.		
	besze Toyeb roll.		
Salas fo	ally end consy city, very limy, with thin	1.7	E. /-
derdritte Tibr	limestone portings. Durantie tota in situ.		
and a body to	Dagustana.		
1	Misconformity.		
Seboo Za.,	ladium sond, eligibly portly, well sorted;	1.5	57
lores wit.	eque "vossicamione" pelliton. Lacudina.		
Do.	From time growel in way 1/2 so 1/2 St. collic	1.0	£ .
	grave below (arbitor to i iz.); spatty		
4	Bunches in but seen "renderstant" politica.		
i .	lacottine.		
in a second	Astronomical value society of the gradules.	7.10	
	Leseville		
	Figure 1 ty.		
Tyenche in.,	Fire-medire, and medite sand, pole vallor-gauge	6	17 23
Tweexies Caurebill acid	remakst erosebedded. Iblica fazi-irlurated,		
(feroded).	with irregularit discordant discillate encountry	Take the same	
3	(erodal Ose herican of Charefull sell) - Base por	in the second second	

4.2c

EMA/A sec. 21, T. 18 H., R. 30 H. Strudigrouble section exposed in bank of -large gally st EN side of soldle at N. and of Hyanaha Valley (figs. 5 and 7).

Eyps area for Wyanaha and Schoo das. Sty of section about 4,027 ft cititude.

Geologic miv		Thichecs (feet)	
Schoo in., dendritic mbr., bearing Toyen soil.	Fine scal, some medium scal, somewhat cilty; a few perbles, especially near base. Lacustrine. Top by ft bears Toyen soil.	2.55	2 5½
Schoo fr., dendricke rhy	Mikt and entay silt, way livy, with sens	in ear	8.00
Sekoo fa Gendritic end Lover Ebra.(1)	Pobling sand, grading to nation gravel at hard, containing come cobbles. Lequetrine.	2,0	6.22
• PRINCE OF THE CONTRACT OF TH	Firecefornity.		
Newsing Denring Carrelill Soil (eroded	Rodien and Sine-print on a gain policy-gray, accorded areasboaded. Dolica. Rose erofod the barison of Chryslell toll. For a not exposed.	5.¢.	**************************************

Lig SEL/4 see. 21, T. 18 N., R. 30 N. Strobigraphic certica exposed in bank of large gully at SV side of radille at V. and of Hyanzha Valley (figs. 5 and 7).

Type area for Hyanaha and Saboo fas. Ecp of section about 4,045 % altitude.

Peoligie mit	Resemblian		
Schoo fr., Lientritic Str., bearing	Gravel and pobbly soul. For 25 ft is very fine	8.5	8.5
	gravel and grit with some pobbles over 1 1/2 in.;		
Toyen soil.	middle part coarse send and grit with some small		
	publics, well sorted one unemented; lower & ft		
	is coming modium gravel grading to clean medium		
	gravel of kare. Many valorman fragments of		
	fonduitie tufa throughout. Lenstrine. Top		
	la fi bears Toyon soil.		
3	Risconformity.		
isenoc fin.,	Silt and easily edits, a little clayer cilt, very	1 20	9.3
den mitte nor.	liny, with play limerate partiage. Rimerane	-	7.9
	garding I-R in timed on base consider toy of		
	widering greet. Line Cities.		
Jekoo fa	Welter grand, grading to college preval at banes	2.0	ve solvi
imparities and	How "constant" parties in the perioder		
	in letter - lengertrians - En length college graves.		
	tweed Is intog lake bon', to by crokes from the		
9	think became the will be a 1 to 2 1/2 to the editors who		
2	the lever gravel convents and requirement are almost		
1	entirely from Eurojus fa., indicating derivation fo	Act.	
	shore driffs from HS. Perivation of upper grovel (2 00 p	
	ins "render-tone" peobles) le urbrows. Lower grave	1	
and the second	is lover three upper gravel probably in tembridie :	n Gregoria	

(continued)

Geologie unit	Decertifica	Mickees (feet)	Sopia (foot)
Schoo im., lower mor.	Febbly medium send; locustrine.	0.5	10 31.
	Disconformity.		
Wyenens Sa., bearing Churchill soil (croise)	Fine-medium and medium sand, pale yellow-gray, somethor exceptedded. Bullen. Sumi-indurated, copecially in upper 54 fo because of line constitution by Gas hardens (assist) of Causebill coil. Hase not expense.	200	29-35

SEL/4 sec. 21, F. 18 E., R. 30 E. Stratigraphic section exposed in bank of gully at S% side of saddle at W. and of Hyangha Valley (figs. 5 and 7).

Type area for Hyangha and Saboo fee. Top of cection shout 4,045 ft albitude.

	Colemes (Sect)	305.432 (2006)
Sudditic take "beeds" to be for close, widely scattered, more or less in situ mosting on or in upper part of layer of silt and fine sand, very limy, with platy limestone partings. Lecustriae.	0.5-1	0.75
Brans Toyet soil.		
Nation growel, soudy uncommunic; no dendritie ture, abundant "mendantione" pobbles throughout, a for cabbles near base. Leanstrine.	2.5	3-55
Medium soud, well sorted, with a fer publice. Requestrine. Reconstructs.	4.00	E. C.
Sundy files and medium gravel and medium sand, importantly ship allowing through some cand before may be soliced. Assistant surfaced in top by for by image leveral contraction of the medical case having not the contraction of the medical case having not the contraction.		21.
	Budritic tare "heads" to by fo close, widely secretared, more or loss in situ resting on or in upper part of layer of silt and fine sand, very lime, with platy limestone partings. Locustrine. Brans Toyel soil. Hallow gravel, soully uncommunely no dendwitte tura, chundent "manderstone" peobles throughout, a fer cobbles near base. Lacustrine. Medium sand, well sorted, with a few pebbles. Lecustrine. Missenfermity. Simily fine and medium gravel and medium sand, interpretable. Medium slipping through once cand bedo may be solium. Such in Surabel in top by in imagains sail-in Surabel in top by in imagains sail-in Surabel in top by in account of the sail of Charachell 1011. Rose	Budditic tufa "heals" to be fo diem., widely Suchtered, more or loss in situ resting on or in upper part of layer of silt and fine sand, very Line, with platy limestone partings. Lecustrine. Brane Toyak soil. Mailum gravel, soully, uncommunely no denomitic 2.5 tufa, abundant "mandarstone" possiles throughout, a for cobbles near base. Lecustrine. Medium soul, well sorted, with a for publics. 1.5 Lecustrine. Missenformatty. Sundy fine and medium gravel and medium soul. 16.5 interpressed. Franks allowing through some rand bede may be solium. Seel-ir sureded in top 8: 20 by irregular soil-line consequences ("rects" of scooled for horizon of Churchill 1011. Rese

Robe: Between this section and structigraphic section 18-30-21-23, about 2 for pelow best of this section, boulder gravel of the Reten in in compact in the tool bed. The boulders have this lithoid this contings, generally less than 1/16 in thick.

SNI/A sec. 21, T. 18 N., A. 30 N. Strabigraphic section exposed in bank of large gully at SV side of saddle at W. and of Kyanaka Valley (figs. 5 and 7). Type area for Kyanaka and Salco ins. Top of section about 4,048 ft altitude.

	TO THE STATE OF TH	1200 Care oc a (3000)	10000
Sanco fils. Cardrinie chr. Tearing Toynh soil.	Sand. Leonstrine. Rears Toyok noil.	0.5	0.5
Skico Sin.	Silty sand, some seady silt, very list, with	2.0-	Contraction of the second
denisitic Sur	limeter portings, especially at base. Learning	•	
	Febbly redice sond. Accustrice.	2.0	i ja
Seboo fiz., lower whr.	Welliam gravel and cohole gravel.	1.5-2.0	6-82
r.	Rebilin redicts seed.	1.02	en .
	Ilranifordity		
		5.20	
Tyandus de ; Geardes	Figure Colors Co		39 PH
	service composition. Substitute a movelular cons		
ezucei	in there of the preent that the first opposition		
	in letter rarie of Secretalial code. Their part bac		
	Back crcd.4.		

Lile.

SEL/4 sec. 21, T. 18 N., R. 30 H. Stratigraphic section exposed in bank of large gully at SV side of saddle at V. and of Nyamaha Valley (figs. 5 and 7).

Type area for Nyamaha and Sekoo ins. For of section about 4,046 ft altitude.

Geologic was	Description	Tolokress (Test)	Republication (Table)	-
Seboo fa.,	Demaritie tura "heads" in cita, to ly ft	0.50	0.55	
desdrivic mbr.	dien. Leastrine.		022	
Lor	Sandy will and fine soud, limestone partings.	2.04	1 75	
	Lecurinine,			
Seboo fil., dendrivie enf lower mbrs.	Sead - Lucustrine.	- 1 m	3,04	
Seboo fe., lover mbr.	Very samely comble gravel. Lasternia.	2.05	4.02	
	Firecurumnity.			
SQue 22.	Notice and fibe-action send; collian; locally	5,(4	10-07	
bearing Caurchill soil (crotot)	nest winds by large part of for harden		4.20	
a to the same of t	of Caurchill soil.			
stee fi.	Madius gravel vall corbed. Requiring	0.52	30.4	
30	Boxlier grazel. Reprises.	2 -2	elardio ecolo	
Tolute in,	Boulear gravel, possily review, bouring sometime	er 4 2	1.3	
decent (Second	eruled Coscon coll. In top several dusies the			
Children & Gal College	intersticial fines are reddish brown, somewhat			
	cluyey, and nearly line-freethe lover part of			
*	the B borison of this coil; beneath is demonly			
	callohe cement the top of the Goo horizon.			
	Tase not exposed.	*		

iles.

SEL/4 sec. 21, T. 16 H., H. 30 H. Strobigraphic section exposed in bank of large gully at SI side of saddle at H. and of Hyanaha Valley (figs. 5 and 7). Type area for Hyanaha and Sehoo fine. Top of section about 4,049 ft altitude.

leologie mit		Thickness (Seat)	Head I
lehoo fm., lendritic mlr., scring Toyak gil.	Fire gravel and grit, tearing Toych soil. Lacustrine.	0.5	0.5
	Milty fine cash, very line, with linestone partings. Lacustring.		C. 4 2 2
lehoo iz., lendritic end .over mbrs.	Send with some pebbles. Leoustrine.	G = 5	4.E
leboo fo., own now.	Fire gravel and medium graval, serdy. Lecustrine.	0.5-0.8	5.65
•	Course public gravel with care raull colinies. Missenformity.	0.32	3-F_
pasks Are, exits Geralili all forcial	Healium send, which come people sends probably markly ealien, partly alleried. Same-impressed by some years of the bordoom of Gamrekall Sond. These are	4. 0	9. %
	ezposeč.		

klyb

SEL/4 sec. 21, E. 18 E., E. 30 E. Sarchigrophic section exposed in bank of Marge gully st SN side of saidle at W. and of Mysmahn Valley. Type area for Mysmahn and Schoo fins. Top of section about 4.055 ft altitude.

			Sept.
Séboo An., Sendrivic mbr. Searing Soyah	Pine send and silty fine send, very liny, with limestone partiage. Lacustrine.	0,5-1.0	0.83
soli.			
Párox III	Time gravel well soulde, with "no despites"	0.5	1-22
hendritie end/or lowe mbr.	gribbles lecutulus.		
Sehoo fo.	Cobble gravel, with Line-ecculage (from	1.05	2 30
lower mor.	gravel below) partly now off. Incustalic.		
•	Directions by	140	
Poisson The	Coolse grand (coobside to A tip. 6'es.).		£ 5-
oerrig Varrenili esi	institute will provide the complete		
eroded	einily-chibs line consist to metality		
	soliche of Jos beriner of Christian soil.		
,	The transfer of the second		

- Who

SMI/A see. 21, T. 18 H., M. 30 H. Stratigraphic section exposed in bank of parge gully et SW side of suddle at W. and of Wyersha Valley (figs. 5 and 7).

Type eros for Wyersha and Schoo fas. Top of section about 4,062 ft altitude.

Geologic	The state of the second contract of the seco	CAS CASCO	
-Seino do., Jenzerivio mor. Jenzing Sych Boil.	Fine gravel, locustrine. Top 3 1/2 ft is vary fine gravel and fine gravel with pebbles monthly 1/4 to 2-in., and many platy linestone	5.9	5.6
	inequents; middle I 1/2; it is come and well; bottom tand, grit, and some fine gravel;		
	limertone, frequents and nony naturates describle tufe frequents. Top 14: in. bears Topek soil.		
Seboo fir.	Fire serd, very lim, with limentone partings.	. 0.5-1.0	€ ₹

SEL/A sec. 21, T. 18 H., R. TO F. Stratigraphic section exposed in book of large guily at 8% side of satisfie at W. and of Wyamic Velley. Type area for greate and Schoo fee. Top of section about 4,057 ft altitude.

-Feologic	ADAM TOOM CONTROL OF MATERIAL CONTROL OF THE CONTRO	12.2	CITICES	260.22
ALAS E	Peschicher		(feet)	(1000)
Jeko fin. Jendričio mbr.,	Leonstrike Limostome, thinly bedden, with		1.0	2,000
jearing Tyrei	much soud. Lacustrine. Bours Toych soil.			
sell.				
1		411		
Relies II.	Postaly medica sone (some "wonderstone"		1.6	2.4.
Teres mir.	pebbler). Lectricity			
id .				
Janos fr.,	Madium pabble gravel to sobble gravel.		₩.O	6 8
lever dir.	lecustrine. This lithough two coctings			
	ok rowidstones; some reundrianes are			
	comestant "redwer" and surrene-edeciced.			
	Buit repidly plumers demonsts to in such			
	backers finer out seeigs.			

The SEL/4 ess. 21. T. 18 H., R. 30 H. Strotigraphic section exposed in bank of large gully at SH side of saddle at W. and of Wysmaha Valley (figs. 5 and 7). Type area for Wysmaha Four 4,052 ft altitude.

Geologia Unit	TRESCRECTION	Section of the sectio	
Select 24.,	Lacustrine limericae, thinly belief, with	1.05	
dandrivie mar.	rilty fine send. Lametrias.		
Sohoo fil. Lever nir.	Folgoly word. Immediates.		E. Per
- Salas Ing	Labium grand, white them is the before	5.6	1
ROTAT TATE	commings. Leastwins.		
Do.	Mailte ourd. Loosetring.	also of the same	6.04
	Discussing		
Tyceshe fa.	News sort, polo gellen-grap; colice-	- 2°	
becateg descession	In the industrial by declosices of		
	Gaurelail soil. Rose Doc cripost.		

SEL/WILL/A sec. 21, T. 16 H., R. 30 H. Generalized stratigraphic section in _bonk of large guich on H. side of saidle between Rates Not. and Schoo Mus. (western end of Hydroda Valley). In type over for Hydroda Schoo Mus. Top of section b.,020, 10 ft altitude.

A STATE AND A STATE OF THE STATE OF T					
Selico fo.,	At our fact, 1/2 to 1 is of small perbles	1	I s Smit.	1. 54	
dendritic mbr Denring	and grit (leg gravel). Underseath is 3 1/24				
Toyen soll.	im. of cardy with elighting coloursous, with				
	sem gris sed more yelling, having prominent				
	werdander structure in lander burkson af Va	yea.			
	poil, lalence is gain and fibre gravel which				
	. pers sater-rounded inegranue of issistive to	20.3			
	uppor by in, is alignity oxidical and leade	d of			
	line and grades into 3 to 11 in. horizon ebs	ping			
	reducate soil-live nearmichien. (B mit Gee				
•	beginous of Toyer soll Inemittee.			414	

Relias 2 ... Gergritte ond Lovar mitte We describe the complete sile, birthy as concerns with many provings with sometimes and security ly a for large specially ly and large security ly a for large special size of the contract of

Direcuformity

45 (continued)

Geologic unit	± 1 ± 1 ± 1 ± 1 ± 1 ± 1 ± 1 ± 1 ± 1 ± 1	Ceit	Trickness (feet)	Septh (Seet)
Sekoo im lower mor.	Coarse cobbly gravel with sand; well-rounded roundstones; locally dips shout 10° (lake bay	3 = 1	1 3/2	6.
Ten c	Lecustrine. Medium to fine-medium sord, clean, with a few small pebbles; evenly bedded; some ostracods.		£=3	8
	Reconformity			
Myemaha fin., becwing Churchill	Fine-medium to medium sand, wall-sorted, pale yellow-gray; evenly bedded (not creashed	dad);	8	The second
scil (eroded).	tedding approx. flet, or dips 1° - 2° doveslog (to NV). No fosmils. Sand is almost emtiral; quarts grains, well fronted. Holisa. Upper	У	e e	
•	feet are partly inducated by soil-line common with inveguinally dispressed whitish Canon			
	cracks, expecially along bedding planed cracks, and as dispersed cylindrical bodies i, in. dim.; letter how bollow curvers (percent	14 20	60 mg	
	tion 1/8 in diam.), and probably were precipt about former sector. Jim become which is examply are			
	indurated. East not amonat	grap to the sec	ii.	

SWI/ANNI/4 sec. 22, T. 18 N., R. 30 N. Stretigraphic section exposed in southeast wall of 1952 gravel pit on morth side of saddle between Schoo and Betza Mountains, at western end of Mysmaha Valley. Top of section (former land surface) about 4,080 ft altitude. Shown in plate 18d.

Geologie unit	Descriptica	Thickness (feet)	kepth (feet)
Seboo fm.,	Fine sand with some small pebblas; pale tan-gray;	1	1
_deadritic mbr.,	very limy; abundant denéritie tufe in haeds		
bearing	ecomonly more than 1 ft in dismeter and about		
Toyeh soil.	I ft high, which grew upward from gravel bed		*
	below. Upper newarch inches (B harrists of		
	Roych soil) is darker end browner than material be	neath.	
	Lacustrine.		
Sehoo fm.,	Cobble gravel with some small boulders to 1 ft	2	3
dendritic mbr.	disaster, and some pubbles and soud in matrix;		
	roundstones are all basels of the Eunejug in.;		
	heavily lime-coated in top 1/2 to 1 ft (just		
- 1	below descritic tuse layer); near 1/2 to 1 ft		
	is almst free of lime contings; next 1 ft has		
	besty line (lithoid taxa) contings, and one boulder	DK.	
maga-	coated with "covalline" take (reversed from a ber		
	of gravel of lower names (V 26 to rest).		
-	Isaurizine.		
Tio.	Fine people gravel to consen gold soud; well	1	12
	sorted; relatively souling, alignily indurated.	*	
	lecustring.		

45e (continued)

Geologic unit	Description T	nickmess (feet)	Berth (feet)
Indian Lakes	Fine send, somewhat sility and gravelly; with	1.5	5.5
2m., middle	variable amounts of pebbles (mostly small), cobbles,		
mbr.	and locally, small boulders; very limy, with some		
	lime root casts; poorly sorted; indistinctly		
	bedded; variable in thickness and discontinuous,		
	but can be traced around 3 wises of this gravel pit;		
•	pinches out 20 ft to west. Possible very week soil		
	development in upperment several inches.		
	Colluvium (slope wash).		
Seboo fin.,	Coarse gravel; mostly leases of small-boulder	2	9.5
Lover mbr.	gravel and cobble gravel; some pubble-gravel beds,		
	generally fairly well conted, with little		
	interstitial gard. Upper part very liny. About		
	35 ft to west thickens to 7 ft and upper 3 ft is		
	cemented by Lithold tude and townest normastones bear	4	
	complings of "commilline" bufe.		
	lecustrice.		
Do.	Sond, mostly medium send, well sorted, some lenses	***	
	of mall-pebbly coad; May; well indurated.		
	Lecustrine.		
	Shorp contest: small disconformity.		

-Geologie wait	Security of the security of th	mi ckmen s · (feet)	Bonde (Yess)
Tyeroba fil.,	Silty gravelly eard in types part (possly sorted,	2.5	22
- Belting	with some pobbles and rare combles and wall.		
-Churchill	boulders); grades downwird to sandy course gravel		
seil (erodsé).	in lower pert. Collutium (elegenmen). Hears &		
	strong soil (Churchill coll); I horison is mostly		
	covidetop I to A today is les terrison, grantes	- 9	
	byene with some lime on a stretches, recliniter of		
The same	rowie de Cor Proliver, die einem Line decombration	2.5	
	complete mark white motivaings for herizen extende		
Time and the second	ebent 2 ft inte underkning grevel.		
ob a	RIGHT disconformity.		
77)			
Frise In	Course gravelcontil benious and cobbles in	61.5	15 7
	continued poblic-grantly with a local line of		
on continuous and	coult-public gravely somethers all coult of the		
ed.	Exemples delig many of their are not or then brokens	it y	
	where in oppose & is one meanghy to medicinately		
	Min - Light & feets, each f. in out & fit here only		
7	The collection of the collection and the		
-	ing of to A is public very test poils in a griss	44.4	
4	programme of the section of the forest respectively.	-	
	servers which make they were soul-white monarmorth	grander Common to the second	
•	(gape lake Con Lewisca). Bowerros VI. Fo So estimal;	po.	
	lim-free, propositioned, with retain of black box	502020	
	madian onto. Beddly educationed this dip serond o	iogradu.	
in.			

Table Table Table Copper 1

enrivers, apparently are part of a spit or bar.

46a (L)

SEL/4 sec. 20 (unsurveyed) T. 18 N., R. 31 E. Smalt of saddle between Stallwater Range and Rainbow Mountain, 4,215 ± 5 ft altitude. Briller's log of test well for oil and gas, drilled 1921-23 for Laboutan Newada Oil Co.

Geologic	Ferentrica	michness (fest)	Ponth (10-16)
laborton group		(qo\$)	
and Paints in.	Sand and gravel	50	20
Correlation uncertain; possibly Truckes in.	Seč clay	10	30
No.	5686	25	
	Clay	75	130
Î.o.	Grerel	20	July 1
Bo.	Clay	35	165
Do.	Sand	**************************************	273
ño.	(TECT)	85	25.5
RC.	Sandevore	70	
Fa.	Grandly point raise	35	
Do.	Sco i	25:	
Bo.	Green T	£-	360
Do.	San brose	214	26
Do.	The second of the second of	***	47
Bo.	Sarioteza		42.)
Do.	Cravel	100 K-2	330
Do.	CLEST	.90	767
Correlation undertain, possibly lower tabr. of Rainbow Mynatain fm./.	The contract of the contract of	80	•
	Alexander		500
it.	alodi avez	S. C.	64
	Mar Signa	£(1)	577

46a (I) (continued)

Geologic	The second secon	inickoess (feet)		
vnit	Recent below	(505)	Little	
Do.	Erora "alale"	155	225	4
Bo.	Eig "cholo"	60	837	
Po.	Greg "shale"	40	927	
Do.	Brown "chale"	145	3077	
Tio .	Gray "chale"		500	
Do.	Sold was said	L.		
Bo.	ever lies		Section 1	
.Do.	Etom "singe"	85	1237	
Bo.	"Conglemente"	15	1237	
Bo.	Gray "lime"; "leas" at 1,370 ft.	210	3443	
line.	The second of th	the care	146:	
Ro.	Gray Charlet	10 6 41 6 41 6	249	
Lo.	Gray "scal". cordica water	at to 3.		
Tio.	Sugarange Sim Summer!		2	
Es.	TOURS TRANSFER	22	139:	
Ro.	The same of the sa	2.0	e Ci-	
Free c	The same			
no.	Green Prince	E.	274	
no.	Biber "Isra"	50		
Bo.	Gray "Sine"	320	132	
Bo.	Black "Line"	60	e and	
*				

Total depth reperced to be 2,015 or 2 060 fe.

TAL/4881/4 sec. 30 (uncurreyed), R. 18 H., R. 31 H. Strebigraphic section in of guida between service and of Noinber Hayatein and 4,450 peak; exposed by trenching. Hop of section 4,210 4 ft altitude.

Geoligic unit	Receilmiion	no.		feet)
		(Soy)	•
Sehoo ili.	Madiwi grevel. (Thickers to as enth or 5 %).			
lower siv.,	on gravel bare within screent bundred foot to A.			
riscus, Loweles	end HK.) He wasa, locustrine. Lear: wyper			
roper provos Popul scil	part of Engel soil	1	0.5	0.5
serse h	Sect. Incomparing the first terms of the file said.			
ioter Mir.,	chightly such deep peliter to hight paick and.			
pearing	bearing lever post (calebrates berlan) of Roye's			
LONG BOAR	soil; (a) 3 to 5 to Time such, granully gains			
of Ford	bright yellow-ter, methating to year pole yello			
222	consults relay (Equil) toute, elevisoins gypen	215		
	(e) 3 work to the could inverted Land with oils,			
	bright yellow here wassulded by in their subs b			
4	combains name silk, markhare Geogra meller, and	ros-seli	ET. (
	(6) 8 L/St it political natural electronic lices. In a	mayor on the day		
	positive. Main gray, involve wastern to 20 ft.	et whic		
	Recolly, and he so for the parts of their sales. O			
	S.C. Mile to Hitti.	4	Targ-	
Remove Serve	Georgia Internation of Color to a Syle of B. C.	No.		
loner mix	goursi, chart in 81/8 for sure the grave, go	A. D.		
The second secon	to granular occurrencians and in home 2 for th	613		
prese.	the length of the last the second	3	5,-	2= -7 _{ee}

_46e

SHI/A sec. 30 (unsurveyed), T. 16 H., A. 31 H. Stretigrephic section in beaut of guich between southern and of Duinter Hountain and 4,450 peak, exposed by transhing. For of section 4,190 ± 20 ft mithings.

-deologie mait	Pereningson		s dejā. Meri)
Sehoo in.,	Medium gravel, subregular throughout. Ionest	its.	
-lover more:	1 1/2 ft. finest, next 3 to 4 ft are coarsest,		
regressive	some cobbles to S in. diez. Pebbles mostly Rainbox		
phose.	Note for . Little noterial from b. 450 peak; none		
	in grants guite "retter" weethered before transport	3	
	The contesting	£	5 %
Senso Day	Challen card, pobley in ryour part; dark resty		
lover mbs.	ten; locustrine. Seems and disci us if by weathering	p	
	but as calcareous soil horizon apparent. Some very		
	Sark olive grains, protective of Lainbert Non. In.	40 E V	735
1	Wery file soul, there estil rule will approx		
	problem, sight grounds ten; porzilier sepe		
	Total Comment of the	ê.	-3.2
1505	Pethlo solle med, sobbles spelly i so than 1/2 in.		
	Micros - Mighally of Days published the Springers.		
	The second of th	4.5	3.0 5
7			
	Time same, which propose printers well conver,		
1	unconsolidately light ten-gray, coline. To Gulla		
2	(soil lize) e-emptation. Nose was empassion.	4. 5	+13 J

\$6d (L)

SW1/4SE1/4 sec. 27, T. 18 N., R. 29 E. Altitude 3,923 + ft. Driller's log of water well; owner, E. S. Berney and Son; Driller, Shuey Drilling Co.; well completed May 28, 1950.

Geologic unit	Description		Maicknes (ft)	a Depth (fert)
Fallon in and Sehoo in.	Stiff yellow clay		45	45
liyeache fm.	Elect soft clay		es	130
Do.	Fine cand, levers of clay.		5	233

400 ft S. of 1/2 seg. cor. between sec. 28 and 29, Carson River floodplain. Stratigraphic section exposed in drainage canal bank, and 4-ft auger hole. Top/section 3,927 + ft altitude.

Geologic unit	Pegcription	Unit no.	Thickr	ess Dept (fest)
Fallon fo.,	Fine send, light tan-gray, clean,	1	3.4	1.4
2nd leke	thinly bedded, bedr dip northward as			
unit.	much as 20°. Coherent. Bottom			
	1.3 in is clear medium sand, grading			
	to clear course sand. Allavial and			
	lecustrine (deltaic).			
	Disconformity			
Fallen fm.,	Clay, chocolate brown to light	2	4.9	6.3
lst lake	brown (darkest and iron stained			
	et top). Becomes more fatty in			
	lover part. Lacustrine.			
Do., or	Medium sand, clean, blue-gray	3	2.0	8.3
Turupah im.	grading downward to orange-tan			
	gray. Albrid or lecustrine.			
Turupab im.	Medium sand, one pebbly coarse	4.	It is	12.3
	sard. Alluvial.			

We car. sec. 29, 4. 18 W., W. 29 W. Caram River floodplain. Stratigraphic section emposed in drainings canal bank, and 5.5-ft auger hole. Top of section 3,930 ft altitude.

Seclogie unit	Reservation	201	Thiekn (2se	ess Dep t) (fes	3 11/4
Police fm.,	Coorse sond, clean, light ten gray.		4.6	4.6	
2d lake unit	Upper 0.5 ft is peobly grit, next				
	2 It generally coarse send with some				
2 4	publice, lower 2 ft same, but has some			,	
	elsy bolls. Alluvium (Caraco Myer				
-2	changel perdy.		· T		
Fallon fa.,	Clay, compant, "faity", cark brown	3	F1 - 3	8.7	
Lover mor.	with come black carbonaceous matter;				
	becomes sordy in lower perc.				
	leand Grise.				
There were the	Cours and mailton send, clear, light	4.5	2.2	2005	
	von-gran lerrostrian or alluviol.				
4					
Same In.,	Terr diam contration gentles to	45	1, 40		
Miner Tips.	Carrier contact to the company when				
	propings, composite. The new				
	recolor.				

NTO

5. edge of sec. 29, T. 18 H., R. 29 H. Crystal River fleedplain. Stratigraphic section exposed in drainage canal bank and 5-75 auger hole. Top of section 3,929 ft altitude.

Cochegia		Dec.	Taickness (2001)	
TOLETE THE	Senig clean fine sand in upper 4 in.,	1	0.5	0.5
nimon upr.	coeres-medium send in lower 2 in.			**
	Leonstrika			^
	Story cordent, discorderation.			
Philips Day	Oley, eilty, bronz grey, with some	2	3.5	2.0
Comer Box.	enviousseme usider; inciplent			
	selman jointing, suggestive of			
	depletation ofter deportaion.			
	Incorporate a			
6	£v.			
133	File come. elem	3	2.2	4.2
Zuryak In.	January 1995. Demo tony common comis,	2,	6	20.2
	in green provide accommending which some			
	with a minimum. Allering.			
5	間をもっても (4) (A) (A) (4)			

17c (1)

SHI/NWI/A see. 30, T. 10 H., D. 69 H. Distince 3,9451ft. Briller's log of water well; owner, Bear and eco, w Dist, A. J. Brookney; well completed for. 1, 1947

Geologia naiv	Dagonirolon	The state of the s	enter de la companya	AT NOT THE PARTY OF	Inichaes (fest	o legun) (20%)	272
Fig. 16 of 18 of 19 of 1	ger de general (Color) i de die general de		entre per la companya de com	and the same	The succession of the successi		ELE
Factor Sa.	Cler'				2	-	
io.	Fire sand				Ł,	. 6	
10.	Fire greens				4.5	30.5	
Eather 4	Mr. C.M.				B. 5	3.3	
Vy chold of a	And Give	10			5	100	
7o.	ficerso send			-	3	23	
1.72	Tellow elem				10	33	
	idler day				30		
23	and the second second				in :	\$3	
i u c	ವರ್ಷ-ಆನಿರ್ವಗೆ ಆ ದ್ರಕ				1.	72	

STIPSEL/4 sec. 25, 2. 13 S., S. 27 S. In size of small plays; altitude, 3,965 ± 7 St. 1514 when test coresolo, no. 35 in Stabler (1904) report; rater level 16 to below surface in 1304.

19	то под том под	Parazzalor	TOTAL SELECTIVE AND THE SERVICE AND SERVICE SERVICES.	A COLOR SHEET STATES OF STATES	PORTOR CONTRACTOR	141	ickuss (feet	s Hegya) (feet)	
,		in the second section of the sectio	STATE OF THE PROPERTY OF THE P			an according to be		CONTRACTOR STATES	- inc
T	allon for	1 37 CAN EN PART	GHORNA!				3.	ers 2 de-e-	
7.	entele 11.	Fig. 4		-			9	* *	
21	U a						1	1240	
1	5	South			100		1	ie	
17	٥.	Cist					2,	16	
p	0.	Cara					3	17	

E. Cogo sec. 32, F. 15 E., A. 25 A. Carain Telly plate. Stratigraphic section expected in Craimage canal brain and 3-16 august hole. Not of section 3,920 ft claimage.

Collegie This	The Control of Control of the Contro	Strain S		
Pollon fis.;	Tours and course sand. Decemble de	2	1.5	1.5
	ancestian sali-someti, lacuntule.			
7				
	In solve or styre			
Paller Es.,	Jay of the same and end.	è	8.3-0.5	<i>3</i> }
cessis lake with,	scriptizations; leonetrine		· • • · · ·	
		4		
Fallon dans	britan eral, close, light ter-grop,		5	4800
Sign indies	many North askers (Low posses)-25fe			
7:07 %				
	charg normalia (d. moronzina			
1214	the programme and the second of the second o		LALS	200
Special Companies				
3.00	Personal Contractor tendentes and	5	0.9	1.1.
			2.0	
Terror E. So	delive tobalg copi, peibles ve	G	2.5	2 - 2
	A/A An. Clar. Trefect verson River			
	and and the first of a sea liver			
	Example of the			

1,25

Is sign see. 32. 2. 16 E., B. 29 II. Lander Fire glain. Stratigraphic newtion asymmet in Oracles constitutes, and 3-26 august hole. Sep of coefficients, 5.928 & 2 Fe clustures.

Commence of the Commence of th	er en de la company de la comp		The description of the section of th	lent (fort)
Pallon .a.	Silvy clay, dark brown, carbonaesous	7	1.5	1.0
4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	breceistel, iron-stained. Highly	1000		
	equipmonence 1/2-in. Reger of base.			
	T.			
	Alternational Section (1)			
laidet Sir	And send and elle, thinly	2	2.5	3
	habeth idely light groy-ter to			
thinks .	relier brown. Inquebalan.			
	Gertalical, confices			
	Sign aley arens languages	-	7) 16	-
	Dame Rooms Remoderates.	J.	2-5	ě.
	Company of the control of the contro			
10-2-14		E.	4 .5 × 2	3

The ear, see, 34, 9, 15 H., R. AS H. Partiferentia section exposed in bank of antimego out in develop less main. Top of section 5,519, it abilities.

The state of the s	THE CONTROL OF THE PROPERTY OF	the throughout comment to the street	ibickreen	Lenda
and the second s	hoverdy's ken	zo.	filest)	(200)
	4		The state of the s	1
Faller fr.	Almo . and, which could lime notules.	arts-	1.5	1.5
E on which was no	Lenguaring			
		14		
			- 1	41
1 ,45	Salvy fine cond, soline, lacustrine.	2	1.0	2.5
200				
The second	This flow land, silvaterus; allumici	5.	3.5	1 13
	Craso Adron dieniel sand).			
Ro.	the and with mall day pallets;	Ù.	0.5	1.00
	nearly black, microcous; alluvial.			
Talian fa. 10 Sept meta.	Sty, Meety Louisiains.	, 9	20	For a series
The Court Court Est	Andrew by closer accurrance	i.	e	2007
	ST SATISFIED.			

SET/A sec 36, 2. 18 S., R. 30 S. Shrrisperine section exposed in EE book of grows, pit in growel test at base of somethin slege, agar Selt Wells. Sop of species 3.990 & 5 to alliabete.

HEGINGTON 1902.03	Together	DESC.	Leickness (1991)	
Salson Sa.,	Fire-molive scal, ally end grevelly; pale		0.2-0.5	0.5
upar um	ter-gray, lucurities. Log gravel of poblice	reid		4:
decring Level	media coblete of surface. Very limy (eroded			
coll (en.0e2).	colearenus homison of Feyel soil).			
Σz:	To , had less condes morally goodly norded	2	0.90	1.45
	the secondary postel, this meaning			
	edil-lica Conologami. Lastotrizo.			
7 620	lebbly course-redium cond, moderately well	5	0.5-0.7	944 1 mm 1
	careely vary liny (seil-line). Thickens			
	to let the 200 he is nothered. Insurbation			
rehop 20.	Pakar correct at later serie, graning commits,	<u>.</u> .	October 5	8.
wiger sie .	THE DOTE NAME OF EACH ENDY (LESSELY MESSE).			
	hit ends we construct. Incontains.			
	late of the same o			
Tr.	also which the server son constitute	-	1. 2-0.	6.35
	ectual year is the golding to Selfin. Oles			
	Tor's he pale gray, merely white, locally with	1		
	refil de lina, probably easty litheid duin e	90		
	types we have a to retail while of executing in th	6		
	tuis dinimi la de din conding on pebaler,			
	sepectivity was softensides, in a 2 to 5 in. L	6 650	-,	
	CE TANKE CHANGE			

4		ACCUPATION OF THE PROPERTY OF	7211	Little Commence	TOTAL TOTAL
		interest the second	EQ.		(2000)
		The second secon	A CONTRACTOR		SECURE SEED OF THE WAY
	Prince Serve	Tap fine grend and grin, sometime	5	2-1-5	207
	statice ture	francos, and the alone, allegated examples			
		of Littlet house 10-49 percent iministic			
		wile from this remainder are basely,			
		codesite, Milistified built, and magalite.			
		With the		,	
		Single Long but			
	Since It is	with gravit a sidius gravit, creasin		0.9-0.7	4-640
	.500	graphs with a to k is lover of solicies			
	59556 1957 (1944) 1944	and limited the in side. Isotobelie.			
	Be	Very thee execul, clear, heavily comerce.	8	6-8-5	6
		Ar lateris todas locustrário.			
,					
	3	Mir Crest was sai, hap, relies	Ş	2.2.6.3	3,100
		1, 21			
		a in The child of their males of the	16	2 kg / 3	4
		AMERICAN TOTAL CONTRACTOR OF THE TOTAL CONTRACTOR OF THE CONTRACTO		•	£
		COLUMN CLOS FOR A Ser Bouldary to come			
		Mics I of District Legislands.			

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	sad flor to lest "motion"; (b) 3/20 ft			
	while gereal, jobbles and complex morthy			
	subcommiss, (c) lever-2 of fit similar to			
	(a), but her less and; mostly grit and very			
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THE A sec. in (whenevered), F. 17 T., in 19 D. Chratigraphic section exposed in guilty bruk, north-astern also of Renajus Nos., sightude (top of section) 4,020 in 10 fb.

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	NAMES AND ASSESSED.		

W. Line sec. 14. 9. 37 M., 8. 30 M. Strathforephic cocken exposed in wash hard at RE edge of Exactor line, elitateds k_1 050 \pm 10 St.

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	ic ec Postos componis.		

53. (13)

SEL/MIL/W sec. 18, R. 17 H., it 99 3. Plain northwast of Carson Lake; Jones and Joseph Seach, 3,928 9 5 ft altitude. Little is leg of test well for oil and pur drilled fur. 1. 1921 to Get. 1923, for Syndicate Cil Co. (also known as Willer suctions Cil Co. and Syndheste Cil and Son Co.). Reported total depth either 1,132 or 3,300 ft (Blakerds, 1947); retary mig used to 3.036 ft; churn-Grilled telem.

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51 (1) (continue)

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51 (1) (continued) .

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51 (1) (southinged)

Robe: D. F. Rayman, of D. S. Saniegical Survey, visited this well in May 1922, than 10 ton 2.84 it Scape Es template (8. S. Gool. Statey till Taport. 1922): vales level whose job fo bales nucleon, gas bubbled up in a concle the casing out was moder and not proceed as mostres embrings were "langedy greenish staly olow, probably because foreig tivided auter leid tuff. and so volumbe Ment de brosefie enterfel una recogniscé. Envilage contribé di minité chille, tiúldi in filold telo carridared la le gathropode amb kirolvon. Spadimens care rollinit il te tio il di enil limerone sen tito enilo forcile ioni i temp simple cotrescientricinal to the interior face limbs rater Carthery rates." I. V. Hickords (V. S. Valle Surfor St. 1 words, levy, herefall when worden facts to the the three fills. County of the between two life is in the Coleman 1983 stated that the will received 19896 in deplication actory equipment then use despende eliber 56 or possibly . 18 ft by colle-beal, beinger September 1922 and Debence 1921. In June 1922 6 1/ win- coxing the con to 2.550 for lever this easing the miles and 4-in. caring our rem to 1.015 for any of a no 5.125 for Seventy for all hard confidence tich feil ein eine errier die erroring beder exact Abif für, auf beken 9,128 ft., nary dans paránter e edite dell'ele rolles dran i de 3 de a dan eré e "electry car der" tob- - 119 of 1 to 5 - Distante regards to the content is to a light of the second difference of the second difference of the second second 1974 With the control of the control

62 ()

NI/SENI/N noc. 13, %. 17 II., N. 23 B. Powner bad of Corson 12ko; challende 3,920 g fb. brill or's log of this bold tall owner, George Balton; duality, Secure Essection

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59 (2)

Generalized stratigraphic restant of the Parafry Stratetics along restern the forgationalizately a miles long, of the Eucefug Maraboline, seed. 21 and 28, 0. 17 h. 16 %.

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In north, and no self benefited to traffice or highly	2	15 37
resimilar laucik flor (selie) domining from Work to red. In		
remain, 30 to 15 ft sed secrate at top, over 1 to 5 ft white the.		
over 15 to 20 ft buff-woldes besig tuff.	1	
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ి ఉంది. గ్రామంలో కారా కారా కార్డ్ స్ట్రామ్స్ మీరు ఎక్కిక్టిస్తే గ్రామంలో ఉంది.	74	4.25
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The set I was a second of the	Unit!	Mickaess
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Mack vesicular chivine bosalt and scorts. Absent in	6	0-50%
north, gradually thickens southward, to 50% ft at entrese		-
poutdivestern edge of nountains.		
asir light-colored tuffaceous zone. In porth, 15 to 35 ft	T	35-95-
thick, with shout 6 ft light buff to plak tuff and tuffaceous		
graval at top, remainder gray to meanly white tuffaccous grewel		
and water-leid grit, containing fragments of repolitic glass.		
white praise, and considerable bandatic and make or bandate,		
including red to black security. Leadily log fo chive green		
pologoritie tuff of base. At 4,590 peak this unit is absormally		
thick sad includes, of top, 25t ft pink quarte letite or rhyolite,		
strongly flow-bandad; 20; ft light to desk grey perlite; 50; ft		
white pusheeous tell and tulybacous grit, and gravel, with several		
ft of yellow tuff commutating some basic fragments near bare.		
UnderStewardiches basic slows. Thack to dork gray and dash	8	the pro- garde
preside grow beauty confor, widenive flows, in places accombat		
election.		
pacellian letor equalitation		350-50

STA/4 cos. 22, S. 27 N. R. 34 B. Auger hole ob conthesstern sige of Eligabrica Plat, altitude, 3.940 y/st.

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i Ni		tors their predected wit, respective soul	6.2	5.3
		MICS; vall survei.		
15.		Silo, Sine soud, sod madito sond,		24.6
		istarbelded; strong organic odor.		
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		tions in laws gard. Devoking	1.40	

FER/4 sec. 48, T. 17 H., R. 31 H. Auger hold in Hightmile Flat (plays), whithere, 3,910 \pm 2 Me.

GOLOGI G	(1) TEV 2019 TEXT (1) 「「「「「「「「「「「「」」」」「「「「」」」「「」」」「「」」」「「」」	Fig. 5 second
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	gray, with graius of quarte, basalt, etc.	
	Toeroinine.	
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	To continue to	

INI/WHE/4 sec. 35, T. 17 E., R. 30 E. Stratigraphic postics exposed in bank of Step gally in large lake box, cartifraction alge of Parajug Mbs., altitude, 0.000 ± 20 ft.

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imderide Tar.	tufa. Lematrine.		
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	nord, which car bear supalied meanithe to the		
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54 (T)

Runefur formation at its type locality. Stratigraphic section exposed in western face of 4,886-ft mountain, Bunejug Mts., HEL/4HEL/4 sec. 33 and MAL/ANTI/A sec. 34 (mourraged), T. 17 N., H. 30 E.

Approximate	thickness
	(fest)
	12000

Dopor part:

Mack cliving baselt flows, vesicular to fairly demos; almost no intorhedded tuff. Heathers browsish-block to purple-hosmish Medi.

12:

Local uncomformity.

TOTER POST

l. Ind teralize terr-broceis.

3

A. Jaseltile existiti, olive dark gray, aparee platicalese phonocrysts in ordenitic groundness with silky lurier. Thin play etracture, commanly contexted, not parallel with Mon.

35

The grey plety bosels or endertite, clight purplish cost-Erone plagicalous plansoryste.

75

4. Bel topic todi-braccio vith some red to surple bigily resiguiar flore

5. Let's grounded grown winder and anite at legal to resembling unit 3.

6. Subjection names leg light for he lately self to purplish taking while port, while to hight quer positivie and pasteous buil, well badded as if wherelold, with come beautife or endaminic fragments; lover part. light buff and light grayish-buff tuff.

7. Electi to red banalt, red scorisceous basalt and red scorie (exposed only in teribera pert of west face of mountain).

50

The world Comment

Approximate total virialmers

ACC.

54c (T)

SAL/MINI/4 sec. 35 (uncurrows), 2. If U., R. 30 S. Strabigraphic section exposed in scribers take of Europes Nac., or traders side of A.652-20 Mas. just rows of the year of the narch branch of the old Simpson ("Sony Represe") read. Her of section chart 4,500 ft sixtense.

	Tenerionies	1125	
	Chiring bacols, sainly black, verkedler flows	3.	504
entren soup).	rose buil-braccie. Sap eroded. Bips Granasa f [*] do 10°		
	South degriber enconsonality		
Drage of All Lorent John J.	State with olive an edge edge experient drops le	â	35 ₂
To.	Cord, bridge red in upper year, greating to the	2	(
	Cal within in Issue part.		
100	Towle work, allway need to messive.	Žþ.	J
Disc	disk's because and an egger pure, gredshy be ten	5.	In France
	at this at later peri-		
They do that	line de a commence descrit es exercine, soldina.	A	20:
To.	industrial and promise thems, with each too	-2	W.
	State of the control	S	3
	Contraction of the second of t		
	1056 tak exposise.		
	Egyponinski mili inde		22.

(Note: All value in lease year sease to be resulty acceptances, but the gradually law screen leaves from them. Ly in with 2 for along 50° in this 5.7

SEL/h sec. 33, 2. 17 S., 2. 31 S. Auger hole at southern edge of Elghomile Fist; whiteda, 3,910 $\underline{\circ}$ 2 feet.

1 1

Celegie mit	Secondycles.	Thidiness (feet)	Des 1.
Harris Committee and the second of the secon	The second second residual and the second of the second se	ANTOC THE RELATIONS TO BURETY VIEW	THE COLUMN TO WHEEL SHEET A
Tallon fa	Marian sent, silby, very coline; / small	7.7	1.7
	gables end grit. Allurium.		
Solice On	they, calty, ten-brown, grading dominant to	6.7	2,5
	olive ton gray and to light olive gray. This		
	layers and portings in clay so follows: at 3.7		
	for tetal depth, astropod-plan elegy 4.5 ft		
	entreesing 4.7 St many that grey colline or		
	Emaltic Louis F.1 St, marty clay and orthogoles		
	6 ft, midtin souds 7 ft, cotraceds; 7.2 ft,		
	fine-spring elega, elime-gray mothical with terms		
	7.7 is the sanit clay: 8.3 ft the recty dity.		
The Court of the C	Copy, Seed that grow mobiled with blady	3.0	u j. Si Na Casa - A Sa ji
	egropeeds emisse, organishly in black usess.		
	The committee		
179	troves seed and under seed, well rended,	1.0	12
	desig three-grows gardan redaily quests out		
	THE COME TO A CONTROL		

ske

Sal/4 sec. 33. T. 17 N., R. 31 H. Augor hole at cross of low ridge above southern edge of Rightmile Flat, altitude, 3.925 $\pm/25$.

COLORS C		ID cinees (sec)	193 (£500)
Frild fi	Till-modice same; very selty. Holies	0.1	0.1
City 25	Cher, chive gray, palty; lecurtries.	0.3	0.3
Do.	Fire-sedium rand, yellor brown; a little	1.2	3.5
	isterbedded olive-green clay; lacustries.		
1.5	Fine sand, very little clay; lecustrine.	2.0	5, 5
No.	Clar, Felles Chire, Lemmanne.	1.0	3.5
Grand Inc	Oley, back grey with bluich-green cast. Spate of whitish testaless meterial (gypsum). Recal black in lover part. Lecurities.	3.0	5.5
Tin a	Olog, blus-filed to dust blue-green, mobbled	1.5	ن د س
	mith ton-brown strenks. Lecuricalur.		
īc.	Fork blue-premercies, slightly sayby in upper year, no send in lever part. Learnings.	5.3	16 ;

NEL/4SEL/4 sec. 4 (uncurreyed) D. 16 H., H. 31 H. Strebigraphic section exposed in bluff beside wash, and suger bole (lower 10 ft), now western side of Fournile Flat; top of section 5.950 ± 10 ft eltitude.

The Control of the Co		inicimess (Seet)	
father to a	At top, play lithold tofa thout 1/2 in. thick.		
upper alu.	gray (late litheld but of this member). belonce	- AMILES	All Sans
	is fine pand the medium cond, well bedded.		
	Inquotaine.		
) (n-) (n)	In top, Minocoldenous layer obout 1/2 to 1 in.	0.2	
	thist, of lithoid tufo, moinly white, cume gray,		
	purity to medicular and imagains former panely		
	lithold tude of this number). Lower part is white	<u>e</u> *	
	collie serd. lecustrine.		
	Riseconomics.		
Seleco fili	Simo neri, some mility element originately	100	W. 50
benfireble	paradically orthered comiss in lever part.	ESET	er.
"lavy. Late D	The state of the s		
	The constant of		
	Ology, older graps may 2 to 3 in. constitute	9	1.
See The Market See The	di besti. Indo, nito e fen feleville com nelt		
S.C. Long.	and fiction of plate light grey but; tony willy		
A CONTRACT OF	sad outerwarm in lower 1 1/2 20, with throughout		
	herisortel and vertical partings; economic sulty;		
	grisactic juinting; joint creeks comment;		
	Tust-sick d. Incestable.		
	Wolfing and fire cand, bright energy and	0 5	35.0
lower ele.	orunge-ten: porchiel, horisontally bedded, yeally		æ
)	estantel time molde; to live. Iconstale.		
	Electric Control of the Control of t		
	272		

Geologie MMO	######################################	ieri)	LATIN LACO
Wemana im.,	Mino cani, interbelle with come madium and a	19.5	38.7
reman	lardle coarse cond, light gray-ten to light gray.		
Carrebill soll	Oper 2 ft has inclined bedding, dipping 25° to E.	ڠ	
(exofot)	caldia your moorly flat, parallel-brides; in lever	,	
	helf beds dip 12° to E. Bolian. Upper part part!	y	
4	lima-cemented (eroded for horizon of Churchill soi	110	
	esmaniation decreases decentaria.		
lyancie in.	Fig. card rad-brew cut arange-betom, isocretedes	4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0.0
	the same clay, olive gray, gypaifurour, lack		
	lily companienticas.		
	· Diagonion in the		
îa.	(Marno-see ins sand isbesion & with mobile service	6	
	grallenich ennn at the gunding to light gray		
	Granaria laeveteles (1) in apper part, willer		
	Deistr.		

54e

SEI/4 and 5. T. 16 N., R. 31 E. Painte Wash, on piedmont northeast of Cocoon Mts; general stratigraphic section for about 800 ft diagonally (due E.) up wash bank, showing Seloo fm. over ancient dune of colian send of Wyemaha formation. Top of section 4,100 ± 20 ft altitude.

	Gerlogic Luit	Description	Thickness (feet)	Depth (feet)
	Failer fr	Fire medium and medium sand, unconsolidated; eclier	3*	3 <u>+</u>
		Discordonalty.	*	
	Sehoo fm. Demoritie mb	Fire will mand, poorly consolidated; lacustribe	3-2	62
	Do -	Besuritic tifa "heads" in situ in sand (grade	7	7+
4		earward into this relayer of platy lacustris	le	
		lightstone; pl 22, A and B).		
	Sehoc 12	Fin-adim and medium sand white, poorly	-	114
D	lover whr	comeso dan i we serted		
		ers was formit y.		
	Wyer Sk fiz	Fire welling and medium same cross bed to	115	221
	r arthu	purity and by soil life on herican		
	_n = n	of The second of the top seems for the Loose and	Ī	
	ಕಲ್ಲಿ ಕಳುಗಳಿತಿ _.	ices Lolian		
	ee tr	Medical graves, well re-	Ż	2011
		Local disconfurnity		
	Falure on	Coarse gravel boulder to the subangular;	34	272
	bearing	postives of the time of each at liner gravel.		
	Cocook soil.	All with The seal inches are red brown, clay	rey,	
		on the and the free loads horizon of Coccon	1	
		soil; are locally eroded; gravel below to derme	Ly	
		cemented by caliche (Sca horizon of Cocoon soil)	•	
100				

SE1/4 sec. 6 (unsurveyed), T. 16 N., R. 31 E. Northeast edge of Cocoon Mts. Stratigraphic section exposed in bank of deep gully (to crest of adjoining ridge); altitude (top of section), 4,280 + 20 ft.

Geologic unit	Description	Thickness (feet)	Bepth (fest)
Seboo fm.,	Fine gravel, grades downward to grit; sparse	3 <u>∻</u>	3 <u>*</u>
lower mer.	shail and ostracod shells; 2 in. medium gravel		
	at top with local cellular tufa in situ. Lacustr	ine.	•
Fo.	Medium sand, some grit; small and ostrucod shells	s 3	6+
	Leoustrine.		
Do.	Fine and fine-medium sand, well-sorted; andil	£.	104
	and ostraced shells. Locustrine.		14
Do.	Fine sand, bright brown-yellow; lacustrine	6	16-
Do.	Nedium send, grading downward to course sand;	ī	17+
	Well sorted. Lacustrine		
Do.	Medium gravel, Lacustrine.	1 1/2+	18 1/2÷
Bo.	Foulder gravel, boulders to 2 ft dism. Lacustrine	64	24 1/21
Wyesaha in.	Medium and flat send, pale yellowish gray. Eclist.	10+	34 1/35
Petza fm.	Foulder gravel and cobbly pebble gravel.	5:	39 1/2-
	Lacustrine. Base not here exposed, but unit		
	overlies benefug fm. about 200 ft downstrems.		

Nol/45E1/4 sec. 2, T. 16 N., E. 29 E. Stratigraphic section exposed in bluff of Wildcat scarp at Wildcat Station (ruins of abandoned pioneer express station); lower 5 feat exposed by dug pit; top of section 3,960 \(\delta\) 10 feet altitude.

Geologic unit	Description	Thickness (feet)	Depth (fest)
Fallon fm.	Slope wash and lag pebblo gravel.	0.4	0.4
Sehoo fn.,	Silt and fine send with numerous small basalt		
upper inbr.	pebbles (about 1/4 in. dism.) Lacustrine.		
bearing	Beere Toych soil	1.2	1.6
Doyen soil			
lo.	Ferr fine send, light yellow-brown, slightly		
	micaceous. Rumerous mound regregations of		
	salts or like, especially near top.		
	lecustrine.	0.7	2.3
Sehoo fm.,	Silt, with fine send in top 3 is. and in		
dendritie	bottom 1/2 in.; grey; numerous white selt		
Ebz.	or lies segregations. Locustries.	0.7	8
Ec.	Cley, with a few this partiage of fine sand;		
	olive gray, alightly salize. Lecustries.	0.7	3.7
Schoo fire;	Fire sand, clear, light gray to light buff;		
dendritic mbr.	similar to time soud bed above except no		
	sult segregations. Loustrine.	0.5	4.2
Sehoo flu.,	Clay, chive gray, alightly saline; a few		
dendritic and	partings of fine cand or sandy clay (rare		
lower more.	below top 3 ft.); "fatty" feel, though most		
	of the clay is screenist sandy. Nore compact		
	end thinly bedded in lower 2 ft. Lecustrine.	The state	16.3

Gaclogic unit	Description	Thickness (feet)	Depth (fest)
Sehoo fm., lower mbr.	Silt, light gray, containing much ReCl (most coherent bed in the section). Thinly but faintly bedded. Mazerous discontinuous hard limestone partings, 1/5 in. or less thick.		
	Strong prisestic jointing, Much fine sand in lower 1/2 ft.	8.0	5p·3
kyeneic fin.	Fine sand, clear, fairly homogeneous, light grey to light buff. Perfectly unconsolidated except for several remember communical pertinguis-		
	Reading regular, level, but faint. Grains well rounded; even smallest ones commonly frosted.		
	Lacustrine.	6.9	31.2
Do.	Sand similar to above, but with fairly numerous partings and fragments of greenish gray clay; many ostracods in places.		
	Lacustrine	4.6	35.8
Do.	Clay, "fatty", dark gray, with many catracods along partings. Lacustries.	4.7	40.5
Bo.	Fine sand, unconsolidated, light gray. Lacustrine or eclian. Base not exposed.	14	ы.5

SEL/USER/4 and 5, 5 to 15 M. R. 29 E. Band-suger hole in flat [former bed of carent luke] which Sti years worth of Wildred Starp, altitude 3,915 & 3 feet

The state of the s		Taloares int	
	.Bili, smr Mar-sandy allic and blayer, bilt.	8.8	2.2
	Their to dank tun-grey; now sold everyesurious		
	one pursible line conitos. Chor shells (Unio)		
	Control to a secretary of the secretary		*
745 15 J	Fire stall, Jacobs, imperhedised with the gray	0.5	3.0
	distribute oliv. Legustring.		
	Mrs. Houghton to the		
Secret Sa	like, as it as to light place gray out light	200	L C
Second section	The state of the s		
£ 1/2-	fall and fig-empty milt, light gray at light	2.1	5.1
	the to much cultists; 1/2 is, clive sitty fine		
	tust with by a lastetring.		
S are	The service of the single proof and arrest coline.	5- Cr	20.0
	The grant Land and some room fine early and		
	the second control is a control of	3	
	The second of th		27-
2	The store is named a very body	0.3	10,5
	Street contesting		

55e

NEI/4NWI/4 sec. 5, T. 15 N., R. 29 E. Hand-auger hole in clay flat (former bed of Carson Lake), about 1 1/3 miles month of White Throne Mts.; $3,909 \pm 1$ ft altitude.

Geologic usit	Description	hickness (feet)	Depth (feet
Fallon fa.,	Silty clay and clayey silt, gray, with abundant		
upper abr.	clas (mussel) shells. Lacustriae.	0.2	0.2
Fallon fm.	Clayey silt, medium grzy to drab grey; some		
	silty clay and sandy-clayer silt. Lacustrine.	3.8	4.0
	Disconformity.		١
Sehoo fm.,	Silty clay, very limy, with colites;		
dendritic Ebr.	light greenish gray. Lacustrine.	0.8	4.8
7			
Fo.	Clay, very limy, eccapally silty, some sandy		
	gardings; many pardery white to light gray		
	liny partings; abundant colites. Lacustrine.	7.5	9.0
So.	Silvy cley, greenish gray; some light gray		
	silty calcareous partings and sandy partings;		
	some oclives, oppracods, and hard line socules.		
	A few bright yellowish-green or yellow-brown-green	2	
	partings of silty clay between 10 and 11.5 ft.		
	Leaustring	3.0	12.0
Seboo im.,	Silty clay, greenish gray. No oclites below		
lover mbr.	top 1 ft.; a few outracode in top 3 ft., more		
	below. Some saad end sendy clay partings in		
	top 2 ft. Remaining 10 ft. very uniform silty		
•	clay (nomewhat samey), olive gray (with rusty		
	streaks and apote), nonceleareous and		
	non-soline. Lacustrine	12.0	24.0

55e (contfaust)

Geologic BELL	Percent with the	Mickness (feet)	Septi. (feet)
Saboa fa.,	Silty eleg similar to above, but with several		
	pertings of reddick-ten time-nedim sent.		
	Torus (1997)	2.2	25.2
Do.	Here white (loselly runt-seleres) cab		
	leyer. div.	0.7	25.5
Co.	Silty-econy clay similar to energy		
	Caro-graf Issueduline.	2.30	2002
	Hole was dry throughout, although level of		
	Careca leits was about 3,908 feet altitude.		

SWI/WHI/4 sec. 5, SFI/WNEI/4 sec. 6, T. 16 N., R. 28 E. Stratigraphic section exposed in bluff at edge of flut, near mouth of Sem Spring Wash; top of section 4,020 ½ 10 ft altitude.

Veclogia molt	Description	Thickness (feet)	Fepth (fest)
Sehoo im.,	Easty fine gravel, pebbles to 2 in. maximus		
dendritic mbr.	diam. Entaly rivolite; some fragments of		
A.	dendritie tufa. Lacustrine.	0.8	0.8
in.	Fire sand, micaceour, light yellow to gray,		
	well souted, uncorsolidated. Some gravelly		
	course and much back. Leastwise.	25	2.8
	Disconformity.		
Sehoo fm.,	Mainly milt, some silty clay and clavey		
dendritic	ealt in appearant and lowermost parts,		
ned lover mbrs.	coherwise very uniform, commonly contains		1
	salarita end somewhat selipe. Well bedded;		•
Y	primatic jointing. lacustrine.	40-	62.5
	Sucry regular contact.		
Tresta II.	ledium sand, close, well bedded. Lacustrine,		
	possibly partly colien. Base not exposed.	10-	52.6

55e

NWI/4SWI/4 sec. 3, T. 15 H., R. 29 E. Stratigraphic section exposed in hank of gravel pit on pediment northwest of Wilte Throne Mts.; top of section 3,995 - 10 feet altitude.

Geologic Wait	Decription	Mickness (feet)	Depúi: (fest)
Schoo fa.,	Madium and fine gravel, send and silty matrix.	2÷	24
dendricie	Pebbles in lower 1 ft. commonly have thin lime		
ILD. o	costings. Lacustrine.		
	Fiscenformity.		
Echto fin.	Polity gravel, cobble gravel, and garrelly and,	4.	6+
lever mar.	interbeshed; necessary vall earlies, parallel-be	žóstá.	
	Houlder layer at bettom, I boulder thick, cented		
	with lithoid tufa. Lecustrize.		
	Angular unconformity.	-	
Betse for	Silt at top and bottom, allty clay in middle;	2:	88
	light olive gray; parallal baddad; mearly	Winds.	-
*	borisostal. Grades laverally into gravel (in		
	· Endarguely dipping embaniments, which are eroded		
	epite) in about 200 ft to W. and 100 ft. to E.		
	le restative		
žių.	Hims seed, relies to gale reliev gray; well bedde	: a 5	194
•	portibel bedied, secrly borisontal. Grafes into		
	gravel to E. and K. Lacustrine. Base not emposes	-	

Hear conter of sec. 11, T. 16 E., R. 29 H. Stratigraphic section exposed in bank of week in northecessors white where there is no estimate b, 180 \pm 20 feet obtained.

EGOLOGI.C TILLO		deness (fort)	207
Helist In.,	labble grevel (medius), vecessibel; some	#	2.7
dandribie	necessors tragmants of dendritic tude; tips	,	COM)
eritage Little	northward several Gagrees. Lacustriae.		
	and the second s		
Deta	Pubble gravel (medium), commuted by litheid tule;	600	E.c.
	gibe torgraphy behavel galacter torgraphy		
	southeart, shows It is no north becomes these safet	Ž	
	est occusion a few "mante" of confidition befo		
	in gito. locustring.		10
Seins Mary	Pebble gravel (medicul), uncomested, with come	Ho.	St
The second of the second	sering Labria. Leonstrice. Bips northwest several		Davi.
	degreens increases to 20 it waies about 50 in to 8	3	
	with court to the of earlie grantle in central parti	icz.	
	motorists and equalsin by fine and motive privile (are are are	
	's Pira same, garabire Dip res ense ali fabul, pela		1,47
	print regions a little like that \$7 continued (in	2	
	problem a to problem in the of emercyling less gracel	1	
	and walls to rectains 30 fo to 2.		
	Piece ice icy	*	
Defrac do	Parlie greek indice, waarmine hasaring	8:	242
	Combach rédi erradiging anal dige soutierres		
	cavanti degreso.		

Type locality of Painte fin. Generalized etrodigraphic section for several hundred floot closs banks of Rulute Vach, close for riles above there absoluted vages read from Salt Valls to Hardide crosses this week, 7.7 value similars continue continue that wells, in Sal/ANA/4 sec. 8, (unsurveyed), 7. 16 H., R. 31 H. Hop of section 4,200 & 20 St altitude.

Gariogic		ii.climace	Live
A STATE OF THE STA		(feet)	Sec.
Schoo in,	libility gravel positive gravel with some cobbles and	2-6	Lies
icare militar	a few coall boulders (rarely more than 1 ft diam.);		
The contract of	bears Sayah soil. Accestrine.		
Styles rolls			
	burbert generally chury, locally gradutional.		
Science Day	Hodira semi, unconsolidated, poorly expecti.	4-8	260
Lenge Dies.,	Ugyer part is sand of lower more, Sahor fee,		
on francis no.	discomformable upon local lover part of Holiaz		
	sent of Warmin fr.		
	Electronical and the second se		
Brief In	Painth grand to boulder gravel, boulders	Eat;	
	SERVER THE TARE I LIFE SUR ELECTRICAL TO		
	reservation in the state of the second of th		
	ull of Serajey Dr. Incomming.		
	Read MirecologyACZ		
Latitle B. Paris	in all the control processes, bruildance is the man.		2
THE STATE OF THE STATE OF	Misse, or Three publics, now, and old in		
English and	rentité la liminatel rassource mough enpendator		
	to ingular, all of Busajus fact individually		
	acceptance figs about 1° to 2° backstock. In		
	places top several inches have modelmout, clayey,		
	reignizely live-imer points (creic) entite begins		
	of Goorge soil ; repolator of Weickness to line-com	en took	
	(con by when of this soil), with occup collabe in r	DF CI	
	U to E for A composing balant. Rese now Year exposed	o but	
	wait talking of a compare workser, to leading 10 f	60	
	and in greater from the dispersion of the inequery f	22.4	

SMI/WEWI/4 sec. 10 (Wisurveyed), F. 16 E., R. 31 E. Auger hole at vest edge of Fournile Flat (playe), altitude 3,980 \(\) 10 ft.

		Chicknoss (2est)	Lepth (feet)
Inciden leines fin.; (of leits Seines egg), beswing Toyon soil	Fouldary allurium, becring Toyoh soil.	2.0°-	14
Select fig.	Fire parti, grading downward to very fine ened;	1 1/2	2 1/2-
Centritic Dor.	musty yellow to pale greated gray. Leaustrine.		700
Law Santa	all to the community of the county of the county of the		in
lover ebr	GIRTO LOCATED LES		
Po.	White publiceous ask, well morted. Lacentrise	1/2	k, 5
Do.	Silt and very fine sord, imerocided, lacurists	1 1/24	8-
Grade te.	Pine ami, will-someth, musty yellow. Leonatria	e 61/6	6.5-
Fo	indice care, well sorbed, pale ton grey. Here	2 2/20	er (
	LA TELEVISION S. P. S. P		

57 (2)

General atratigraphic section of Bunajus formation in central Coccon limintales near couthers edge of Carton lake quadrangle; sec. 13 (unsurveyed), T. 16 E., R. 30 E. and sec. 18 (unsurveyed), T. 16 M., E. 31 E.

	Çalt no.	Micke (feet)
Olivine beselt, fork gray to black, vesicular; six or nere		
flows in places. *	2	75-201
Local engular unconfamily.		
Dell's pretly light grey.	eac.	15-29
Smell enguler unescionally.		
Anienite and(or toschi ilona, desk gray.	4. e-	5
Tuff, bright set to pink	14	25
Achienite end(or) borelt flows, but gray	157	20:
Inti, pale gint to light grows poorly exposed	S	
saterile after becaus were, both grey	7	. 5
Orde. Tombe 10- deca religible alon, ordes or tons accessive		
tini de er liggir eres end espesifis madi punise má ligit coloras.		
Salador Joseffe o for fown of their than their at hear		
industrial trades to our Com, and good to bloods	(a)	2 44
For the state of the control of the		

Scil-profile section of the Coccom soil, sampled and described by

M. E. Springer and R. B. Marrison. leading: Sampled platess of thite Throne

Mountains, 15 miles south of Fallow, Nov., HEL/MERI/A sec. 15, T. 16 E., R. 29 E.

(1/h" SW of T of Mountains, in Common Lake quad.) Topographic position: Broad,

nearly flat rings great. Empoure: Bug pit. Altitude: 4,740 feet. Slope:

1 puremet. Erosion: Very slight to none. Parent Estevial: Solifluction and

areap namile about 15" thick, underlain by resignar aliving baselt of the

Dunejug fermation. Matural cover: Sparse shrubs (Shadecale, 30 percent;

little greacewood, 60 percent), very sparse Broads tectorum.

Perot (Sretor)	Thickness (Lecknes)		
-12 to 0	No.	er /	leasest pereness of dexis brown vermiched flaggy basels
			blocks and postions, carening 90 percent of surface.
0-2	2	L.	Finklish gray (5 TR 7/2) Sine sendy losm; etructure,
			redicular, modernic coerse columnar; weak madium
			ploty; commintence, slightly bard, hereh.
			Serupt, essects bemakery.
200	Ê;	The second	Reference (5 M 5/3) eleg leans structure, medica
			mountar; commissione, frichie. Gomesine more roots
			than legest shows and below.
			Clear irregular boundary
5-9	4	E	light modified brown (5 In 6/3) seein lowe; etrecture.
		*	tudi granding escalations, loot. A few medics
			THE STORE COST, COMMENCES OF BELLET T INCHES.
			fire lead boundary.
2-25	6	CASI	First 15 Th 7/6; granully sondy local contains many
		6*	West CoSO, concretions, structure, structureless,
			massive; consistence, mainly comental, bard.
			Greduck boundary.
71 177 12. 177		0 :0	White Gada, comenting freeters fack gray baselt.

_/Establis has decided hater than the Cococa soil proper sad hence not properly a part of ice profile.

Doil-profile 50(8) elected the payment trop a the

(Frofile sampled and analyzed by M. M. Springer, univ. of Goldworsin, Borneley, Callf.)

	and the second	ig.	- She		1000 1000 1000 1000 1000 1000 1000 100
G	9 -15	0,	no c	0 10	Depth
rykov Afficia Guimaldia		1-3	3.0%	(m) (20) (20)	Aggarato degarator
0 30	2.5	57.0	99.8	3,7	The Samuel Samue
	٠ ٠.:		 0:	is.	
A.	0.014	0.026	0.017	7.0.0	Norcone In (whole
	1478 240 COMM	1.01.	in the	وه ن:	C H
3	in the second		Sec. 5	grad	CENTON (CENTON)
AND CANAL OF	N On	(m)	() ()	12.0	The second secon
and sections		A	0	C sat	
arias es april	CU On		0,0	9	
age. Cangaran, an e	35	20.0	in the second	C	12000
	23	24.5	50	200	Tawester of the distribution of Co. 10.05 0.05
	200	28.1	N'51	W V	
Andrews per termina	E C	18 13.	A i	Tend And And And And And And And And And A	

59 (8) .

Soil-profile section of the Coccon soil, showing especially well preserved emper part of profile (seemled and described by M. E. Springer and R. B. Morrison). Incetion: Top of White Throne Mountains, 15 miles south of Fallon, Nevada. (n line between one. 15 and 16. T. 16 R.. R. 29 R., at southern margin of Carson lake quadrangle. Esposyantic position: Great of ridge. Exposure: Bug pit. Altitude: 4,660 Slope: - 1 percent. Exosion: Very slight to nome. Ferent material: Collevine (solifluction and crosp martle) about 1 1/2 feet thick, underlain by cliving boselt of the Runsjug formation. Present climate: Average mean survail precipitation about 6 inches; everage mean samual temperature about 49°F. Ectural cover: Sparse, covers less them 3/4 of surface; mainly shaducale (Atriples conferbifolia), little greserood (Earcubstus Balleyi), but says (Artonomia arisaments), shi rurely other shrub species, together with space grosses incetly because tectorum and forbe - Root of the base part of the surface is covered by a Guert parement of slabby blocks and pubbles of basakt, only one stone thick; governally oriented parallel with the surface. The top surfaces of the etonic are needly thiny dark brown, dark reddish brown, to nearly black due to decert varmish, whosees the under surfaces are full breezisk crop or excy.

Repth Stickers Fell (inches)(inches Perfect

Reservation

TOT

-1.c

Secret persons of dark brown verminies, flaggr blocks and publics of bounds, covering 90 persons of orefine.

Tagia.	in (arches)	Esta Estation	
0-8 5	202	4/	Middleh gray (7.5 TR 7/2) very fine sendy loca;
			simusture, vesicular (punctous spherical or tubuler
			moids 1/4 to 3 mm in dismeter) moderate course
			columnay, weak medium platy; consistence, elightly
			nord. harsh, floury. Cracked vertically to form
			holygonal blocks 2.4-4 is. is dismotor.
			Maruni sectia borndery.
1.62	** s [7]	1	Latelian became (5 In 5/4) elay leasy attendance, medica
			gresular to meditors (upper 1/4 inch is fine-gresular
			and trieble; consistence, clightly here.
			Clear, irregular boundary.
249			
Lest.	-	Ber	Digit redition-brems (500 6/4) eley loss; estructure,
	11 4		grantler to meliom; carlebase, elligibly bert.
			STEE MANDE CONTRACTOR .
			Glear, wany base sory.
42.47	4		
1000	ν_c	S. S. C.	Piri (9 NO 7/3) sourcity accept lace, atrong Gess
			climates conclude, real grander;
			The state of the s
100	*	ger i	Idnic, (5 % 8/5) where series from news terms
	•		mentation; rivustare, to it granter;
			condevence. very hard.
			Gradual boundary.
19-5) • °\$	Cen	Procesured testalt, commented with Coll, (soil Mixe).

According connect that the Grecor nell and kance has proparity a part of its profile.

Boll Brofile 59(8) chesical and physics properties.

(Sampled and analyzed by M. S. Syringer, Univ. of Callfornia, Berkeley, Caliz.)

		C.		The state of the s	200	250	\$/4. 7:20	los Leon	*.	
	6 - 50	36 - 36	(14 - 10)	10 - 15	7 . 30	10.55	0 9 0	Depth Inches	gen gage. Verlage zero	
				er.	100	7.03	S	Approximat density		
Section 2000 Control of the Control	•	(S)	4.5	147.8	50.3	93.3	1.00	Parcent A 2 190	Laboration of Printer State State	and the second s
		to Ca	O1	5	end S (A)	0,4	0	The state of the s		
And Age of the Age of	THE SHEET AND A STATE OF THE ST	0.03	0.004	0.01	0.00	0.026	0.002	A Troop	3.deboass	
* **	The second secon	under anticipier in de la residencia	ng ganganga maga sa Mag	10.0	17.0	12,5	9.7	N/O		Alliant Australia (1994)
	S.D.		15 C 8 C 8 C 8 C 8 C 8 C 8 C 8 C 8 C 8 C	gran	0,0	0	O with	carbonates (chele	Cip, Troom	
1	permitter states of Assessment and A		THE STATE OF THE S	PARTY STATE	S Photography of the state of t	5			ar Larvas S.A	aggerier og general som general
	ABLAYAT PROLUMPS SEAT APPRIETY CON	Market	and vitting and another state of the state o	5	es de la companya de	0	0		The Partie	7)
Can Winds and Co.	THE THE TAXABLE STATES	0		30	Pro-	let C	and a	00.7	2.50 050	Article cise
the many of the state of the	AND COMMENTS OF THE PROPERTY O	C. C.	schere stegs ausbrührhe	16.0	EA to	12,9	22.5	6.55) THERE	01 6 0 d
2 10 10 10 10 10 10 10 10 10 10 10 10 10	HERETTE OF HERETON	8	almonto de la	200	3	35.5	The same and the s	E 9 0	D.M. Mar	distribution
	and the second s	V.					5		L carb.	:don
Grant B. G. C. Signature	ecializa y ≥ 1000 € 250 € 25	7		i .	2	5	ic		Enroentage of the war (O.S. and carry free co	

SEL/4Hel/4 sec. 13, T. 16 N., R. 28 E. Stratigraphic section exposed in bank of gully through bigs gravel embankment at northern fromt of Besert Strandeline; top of section $6,250\pm20$ M chairman.

The state of the s		Trickness (Zest)	i iterika (Teci
Control Cong	Fine gravel, extiraly physhite peobles:		
Louis usus.	Widemo nordinard. Lamptrine.	2-10	6:
	Fire end notion gravel, entirely physlite		
	publies, commuted by lithoid tuft with 0 to	- 4 -	
	1/2 It of collabor tule of top-herotrine.		Es
	Ideanternity.		
La de La Cara	Course gravel, with much interstitial fine		
i par bolala	grand, and course used. 85 percent of remark	APSE:	
regressive	are revelite, remainder baselt and anderite;	44705	
ekore deposit	Day ore subspiler. Lecurining.	7.52	234
of Ed Synos Leb	ಕಾರ್ಯವನ್ನು ಕರ್ಮಾಟ ರಾಷ್ಟ್ರಗಳ ಪ್ರಕ್ರೀಯ ಕರ್ಮಾಟ್ ಕ್ರಾಂಡ್ ಪ್ರಾಥಾಗಿ ಕರ್ಮಾಟ್ ಕ್ರಾಂಡ್ ಪ್ರಾಥಾಗಿ ಕ್ರಾಂಡ್ ಪ್ರಾಥಾಗಿ ಕ್ರಾಂಡ್ ಪ್ರ	***	ens.
Erost die	· Corne Clan some (top to bottom): 3.5 %		
THE THE T	The light properties, 0.5 ft aller elev.		
03"100"	ter; 1.7 ft yezy fine cond, clean, ton;		
deposit of	1.0 ft mile, tem; 6.5 ft very fine sand.		
th Faur Lab	The second secon	7.0	S = -
3597 (c. 27-) ·	Tolker provided with approximation files		
1000	grands has agains contrally mighting.		
	Carrier of Clares	3	300
eiera éspecia os			
24 Franciskaj.			
	The conformation.		
later and and			
RE Proper Lakency			

7	Geologic unit	Description	Thickness (fest)	16.76	
	Fotze fm.,	Silt; locustrize; weakly prismatic structure			
	(probably high-stage	and pale red-brown color suggest incipiont			
	offehore deposit of let Retze Lake).	coil development.	0.52	30.5 <u>*</u>	
	Bo.	Tery fine sand, light tan; lecustrine.	c.5	312	
		Probable disconformity (subscript exposure?)			
	Ro.	Clayey cilt, cilt, and some silty clay,			
		ten-brown, with chocolate-brown staining			
		along izreguler prismatic partinge, and			
		carbonaceous strenks (root remains?)	2	334	
		Lacustrine.			
b	5 Cri 2	Silty clay, gravish brown, with some white			
		greatm streeks. Lacustrine.	0.6	33.52	
	Bo.	Sand, modium, fine, and very fine,			
		interhedded, well corted. lecustrine.	1.5	5.5. F	
	Allevium of	Fire greenly engalor, practically all			
	Retse aga?	migralite Alluvial gravel?	8	37⊵	
		Sisconformity, probable			
		subactiel exposure.			
	Istan III.	Hadium sand, yellow, pebbly in top 1/2 ft.			
		Some white limy spots, probably soil lime			
		(possibly incipient soil profile). Lacustrine	. 0.6	37.6:	
	20.	Fixe gravel, engular, mostly rimolite.			
ŀ		Lacustries. Ease not exposed.	0.6	38 <u>+</u>	
1		292		riosure	

60 (continued)

1

Note: The banks of a main wash 1/4 mile to southwast expose 20 to 85 ft of Ectac fm. between 4,380 to about 4,200 ft altitude. Unconformably underlying gravel and tufa of the lower member of the Schoo fm. at about 4,300 ft altitude (top of section) are the following Ectaa scalingers, from top to bottom: 20 ft of cobble gravel, then 15 ft of sandy fine- to medium-gravel, then a 25-ft zone of alternating sand (coarse to fine), silt, and some clean medium gravel (the lower part is mostly sand and fine-gravelly sand). The last some transgresses 5 to 25 ft of coarse boulder gravel that is the basel deposit of the Estac fm. The basel gravel can be traced continuously up to the highest shoreline (Isbonten beach), which it underlies.

60a

SA/4 sec. 20 (unsurveyed), T. 16 E., R. 29 E. Stratigraphic section emposed in dug pit at crest of small, highest, spit at northwest and of Russell spit (Russell's spit A (1885, pl. 19]), just below highest shoreline of Lake Labortan; altitude, 4,380 ± 2 ft.

Geologia Gnit	INCTIPION	Trickness (inches)	Der /is
Zetza in.,	Peobles, very angular of andesite and basalt,	T many A	12
bearing	and some cobbler, mainly thyolite; desert		
Churchill soil.	varuish oz upper surfaces. Leg gravel.		
18 18 18 18 18 18 18 18 18 18 18 18 18 1	Silty soud with some pabbles; resimilar	3	** !n
	etracture. Vesicular soil horizon.		
Sc.	Medius gravel, nutrix of fire send and some	8	160
	flocoulated clay, pale reddish brown,		
	non-calcareous. Lake gravel with cadde		
	borison of Churchill soil.		
		34	
**************************************	Medica grevel, very well sorted; white	14	264
	soil-lime costings (chalky, soft and powdery)		
	on bottom 3/4's of peobles. Lake gravel with		
	Cos borison of Churchill soil. Ease not expo	sta.	

Table 1. sajor cenozoic rock-stratigraphic units in the carson pesert area

59-87

Time eriod Rpoch		Rock-stratigraphic units	Maximum exposed thickness in feet
	Recent	Fallon formation. Post-Lake Lahontan lake and subserial sediments.	35
-	9	Valley Lahontan group. Sediments of Lake Lahontan and	37
7		associated subscrial sediments.	330
Quaternary	. auasc	Paiute formation. Fan gravel and colluvium.	40
-Quat	Pleistocene	Basalt of Rattlesnake Hill. Basalt flows and agglomerate,	·
	4	coeval with Paiute formation or earlier.	200
-		Pre-Lake Lahontan lacustrine sediments. Sand and gravel;	
Ess. in time	and the second		20
1 1		Bunejug formation. Olivine basalt flows, some basaltic tuff,	
		in upper part; andesitic to basaltic flows in lower part,	
		with some dacite and basic to silicic tuff. Commonly	
	ne.	unconformable upon Truckee formation, but in places	
	Pliocen	possibly interfingers with Truckee.	650
	i d	Local unconformity	050
	•	Truckee formation. Silicic to basic tuff, tuffaceous sandstone	
		and gravel, diatomite, and limestone.	500
		Local unconformity	
Tertiary	! ! !	Eagles House rhyolite. Rhyolitic to dacitic flows; thick and	
Fert	i I	massive in lower part, thin and locally perlitic and/or	
1		pumiceous in uppermost part, which locally grades laterally	
		into lower part of Truckee formation.	400
	olde	Unconformity	
	and	Dacite of Rainbow Mountain. Mainly dacitic flows.	2007
		-Unconformity?	, , , , , , , , , , , , , , , , , , ,
	Miocene	Basalt of Rainbow Mountain. Basaltic, and some andesitic, flows;	
		some tuff; much faulted and generally considerably altered.	7000
		Base not exposed.	700?